TOSHIBA

FILE NO. 020-200406

SERVICE MANUAL

Color Television

N4WS Chassis

34HF84

(TAC0404)

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a 120V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B).
   (See SETTING & ADJUSTING DATA on page 11)

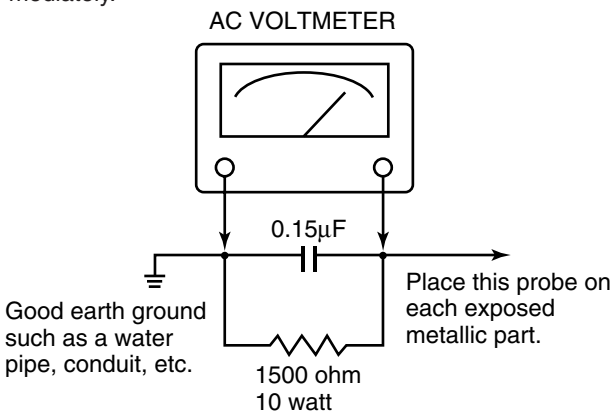
   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning, following the FS CIRCUIT CHECK procedure in this manual.
3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation Transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner:

   Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 µF, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 µF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts rms. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.


AC VOLTMETER
0.15µF
Good earth ground such as a water pipe, conduit, etc.
Place this probe on each exposed metallic part.
1500 ohm
10 watt

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF SERVICE MANUAL.

SET-UP ADJUSTMENT FOR FLAT TUBE

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

COLOR PURITY ADUSTMENT

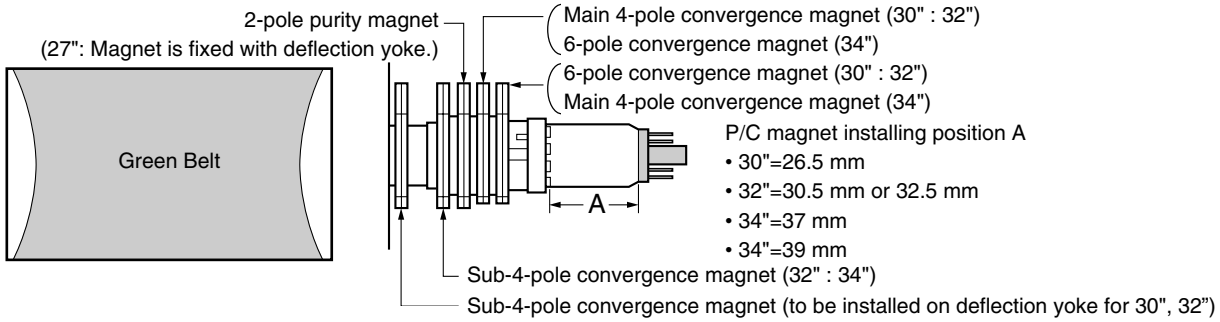
(1)Let the screen face in the installing direction or toward the east (when it is to be moved), bring up the service mode screen after demagnetizing (front, left, right, and top) with the degaussing coil, receive white signals by pressing the [TV/VIDEO] button, and then the receiver should be operated for more than 40 minutes.

(2)Perform rough adjustment of the central convergence with the P/C magnet according to the adjustment item.

(3)Receive built-in green signals, loosen set screws on the deflection yoke, remove rubber wedges, and shift the deflection yoke to toward front.

(4)Move alternately the two 2-pole magnets of the P/C magnets so that the green raster can come to the center of the screen.

Figure 1.

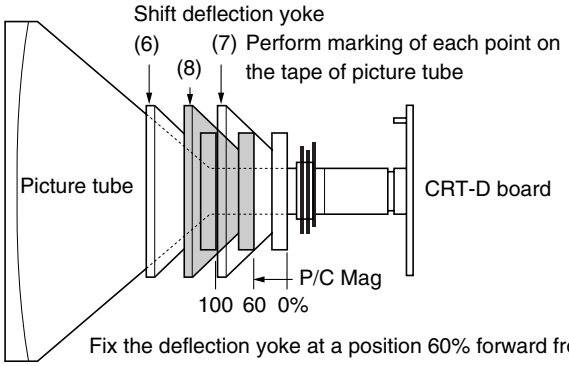

2-pole purity magnet
(27": Magnet is fixed with deflection yoke.)
Green Belt
Main 4-pole convergence magnet (30" : 32")
6-pole convergence magnet (34")
6-pole convergence magnet (30" : 32")
Main 4-pole convergence magnet (34")
A
P/C magnet installing position A
• 30"=26.5 mm
• 32"=30.5 mm or 32.5 mm
• 34"=37 mm
• 34"=39 mm
Sub-4-pole convergence magnet (32" : 34")
Sub-4-pole convergence magnet (to be installed on deflection yoke for 30", 32")

(5)Receive built-in red and blue signals, check that there is no inclination of the single color raster toward one side, and if each color tilts to a great extent, make adjustment with the 2-pole magnet so that the 3 colors will come to the center evenly.

(6)Receive the green raster, shift the deflection yoke from a foremost position (hitting against the picture tube) to a backward position horizontally, stop the deflection yoke at a position where it begins to become a green raster, and perform accurate marking on the picture tube.

(7)Shift the deflection yoke further backward, and perform accurate marking at a position where the green raster begins to being luck.

(8)Fix the deflection yoke at a position 60% forward within the range marked in items (6) and (7) above.



Fix the deflection yoke at a position 60% forward from a point between (6) and (7)

CONVERGENCE ADJUSTMENTS

* Adjust the convergence magnet to get vest convergence in the the order to (1) ~ (5).

■ CENTER CONVERGENCE:

(1)Receive the white crosshatch or dot pattern from the service signal generator.

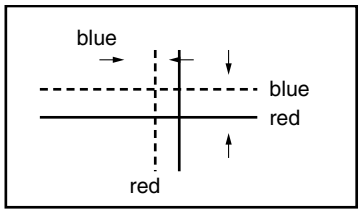
(2)Use the 2 pieces of main 4-pole magnets of P/C magnets, change the open angle, and align the red and blue vertical lines on the screen center.

(3)Freeze the open angle of the main 4-pole magnets, turn them simultaneously, and align the horizontal lines.

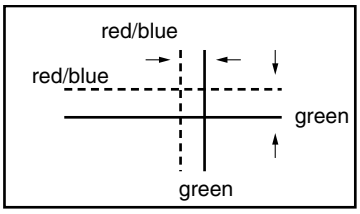
(4)Take the same steps for items (2) and (3) above and align red/blue with green on the screen center using two 6-pole magnets.

(5)Adjust the sub-4-pole magnets only in case there is any deviation of Xv bow-shaped convergence. (To be usually set at the initial position)

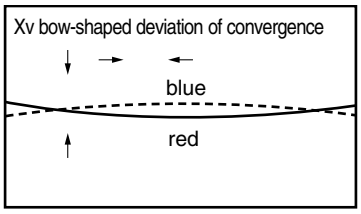
Align both sides with the sub-4-pole magnets and minimize the deviation of blue and red with the main 4-pole magnets.



Main 4-pole magnet



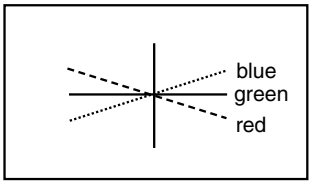
6-pole magnet

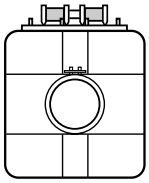


Sub-4-pole magnet

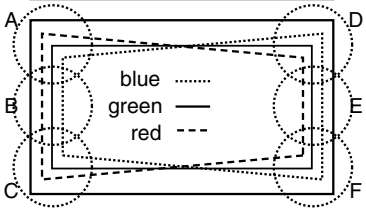
■ CIRCUMFERENCE CONVERGENCE:

∗ Perform correction in the following manner.

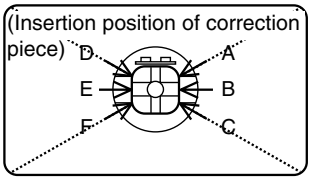




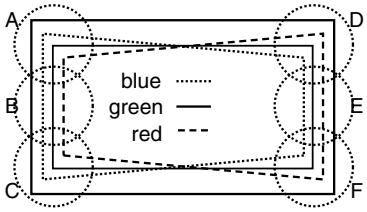
• Adjust coils and minimize deviation
(The 27" unit has coils underneath it)



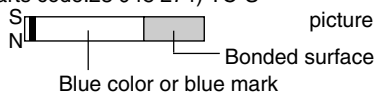
(Parts code:23 948 274) TC-S

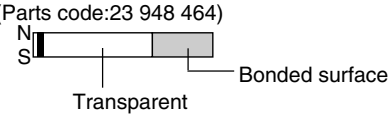


*Insert the correction piece between the picture tube and the deflection yoke.

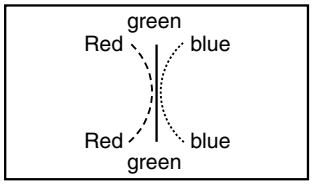


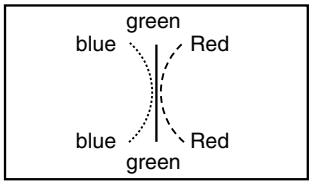
(Parts code:23 948 464)



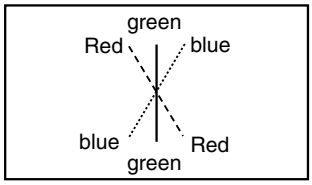


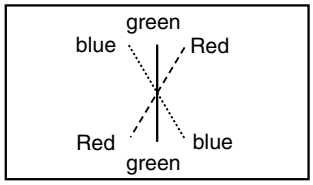
Adjust VR 1 and minimize the deviation of YH. *Only 27", 30" and 32".



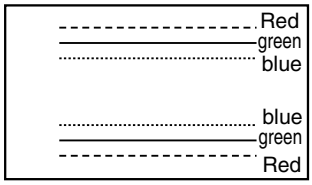


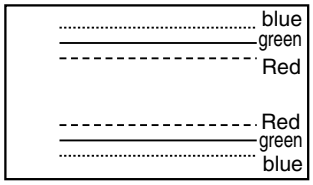
Adjust VR 2 (YHC) and minimize the deviation of YH.

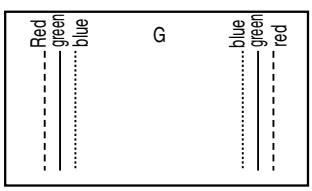


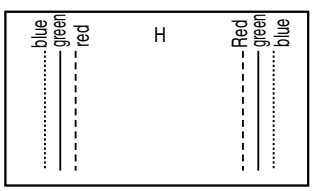


Adjust VR 3 (YV) and minimize the deviation of YV.

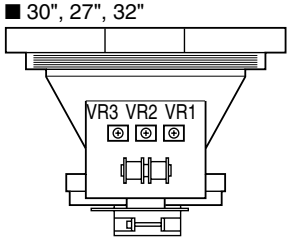




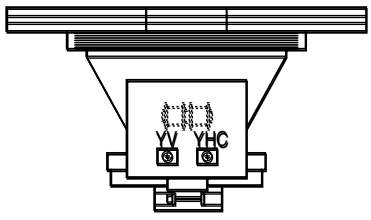




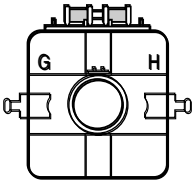
■ 30", 27", 32"



■ 34"



27" (Part No. 23 947 371)
32", 30" (Part No. 23 947 121)
34" (Part No. 23 993 080)



Perform correction by inserting the correction piece into the clearance of terminal board coils of the deflection yoke.

Note:

Perform insertion by turning the metal side to the terminal board side of the deflection yoke.

SERVICE MODE

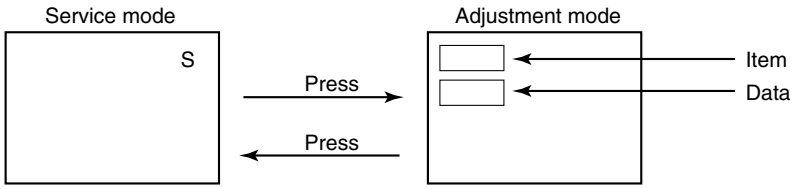
1. ENTERING TO SERVICE MODE

1) Press MUTE button twice on Remote Control.
2) Press MUTE button again to keep pressing.
3) While pressing the MUTE button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	TV (ANT)/VIDEO button (on TV)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ▲/▼ (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	RECALL+Channel button on TV (▲)
Initialization of the self diagnostic data:	RECALL+Channel button on TV (▼)

“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLC” selection :	5 button
Self diagnostic display :	9 button

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 11)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ▲ or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

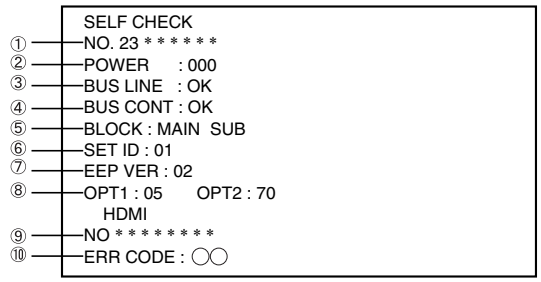
After replacing QA02, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the RECALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Programming Channel Memory” on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.


SELF CHECK
① NO. 23 * * * * * *
② POWER : 000
③ BUS LINE : OK
④ BUS CONT : OK
⑤ BLOCK : MAIN SUB
⑥ SET ID : 01
⑦ EEP VER : 02
⑧ OPT1 : 05 OPT2 : 70
HDMI
⑨ NO * * * * * * * *
⑩ ERR CODE : ○○

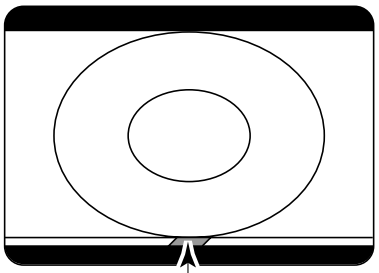
① Part number of microprocessor (QA01)
② Operation number of protection circuit (current limiter) . . . . “000” is normal.
③ BUS line check
- “OK” ..... Normal
- “SCL-GND” or “NG” ..... SCL-GND short circuit
- “SDA-GND” or “NG” ..... SDA-GND short circuit
- “SCL-SDA” or “NG” ..... SCL-SDA short circuit

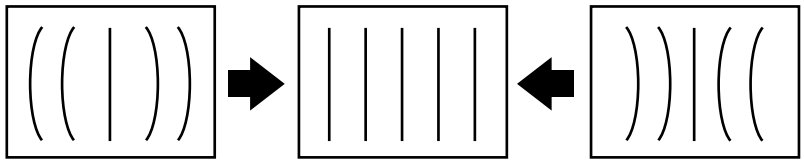
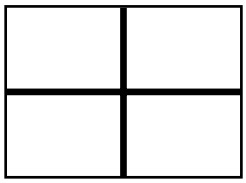
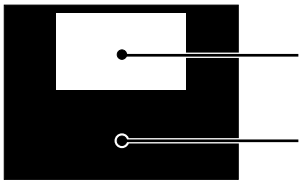
④ BUS line ACK (acknowledge) check
- “OK” ..... Normal
- Display of Location Number . . . . NG
- (Display example)
- “QA02 NG”, “H001 NG”, “Q501 NG” etc.
- Note: The indication of failure place is only one place though failure places are plural. When repair of a failure place finishes, the next failure place is indicated. (The order of priority of indication is left side.)

⑤ Sync. signal check
- Green display ..... Normal
- Red display ..... NG
  - MAIN ..... Main sync
  - SUB ..... Sub sync (when turn on the PIP)

⑥ ID code for TV Set
⑦ Version of "EEP"
⑧ Data for "OPT"
⑨ Part number of HDMI microprocessor
⑩ HDMI error code

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC)	1. Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT). 2. Adjust the CONTRAST control to the minimum. 3. Call up the adjustment mode display, then select the item **BRTC**. 4. Press the VOLUME ▲ or ▼ button so the belt of vertical retrace line just disappear. 5. Adjust the CONTRAST control for the desired contrast. 6. Perform the HEIGHT adjustment.  Vertical retrace line
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▲ or ▼ button to get the picture so the left and right edges of raster begins to lack. 3. Press the VOLUME ▲ or ▼ button to advance the data by 7 steps. Note : Check the horizontal picture position is correct.

ITEM	ADJUSTMENT PROCEDURE
E-W PARABOLA (DPC) (PARA)	1. Call up the adjustment mode display, then select the item **PARA**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to make vertical lines straight as shown below. 
HORIZONTAL POSITION (HPOS) VERTICAL POSITION (VPOS)	1. Call up the adjustment mode display, then select the item **HPOS** or **VPOS**. 2. Press the TV/VIDEO button on Remote until the white cross-bar or black cross-bar pattern appears on the screen. 3. Adjust the HORIZONTAL and VERTICAL position alternately by pressing the VOLUME ▲ or ▼ button for proper picture position. 4. Check the picture with off-air signal. 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▲ or ▼ button to get the picture so the top of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 9 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (GDRV) (BDRV)	1. Adjust the CONTRAST control to the center, and BRIGHTNESS control to the maximum. 2. Call up the adjustment mode display, and press the TV/VIDEO button on Remote until the white and black pattern appears on the screen. 3. Adjust the following items with the CHANNEL ▲/▼ and VOLUME ▲/▼ buttons. Item : RCUT ⟶ Data : 40H Item : GCUT ⟶ Data : 40H Item : BCUT ⟶ Data : 40H Item : GDRV ⟶ Data : 40H Item : BDRV ⟶ Data : 40H 4. Press the TV/VIDEO button on TV to display a single horizontal line on the screen. 5. Turn the SCREEN control (FBT) fully counterclockwise and gradually rotate clockwise until the first horizontal line appears slightly on the screen. 6. Press the TV/VIDEO button to display the normal picture. 7. Adjust the remaining two "?CUT" items (CHANNEL ▲/▼ → TV/VIDEO → VOLUME ▲/▼ in order) to obtain the slightly lighted horizontal line in the same levels of three (red, green, blue) colors. The line should be white if the adjustments are proper.  Bright area Adjust "GDRV" or "BDRV" to be white. Dark area Fine adjust "RCUT", "GCUT" or "BCUT" to be black.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

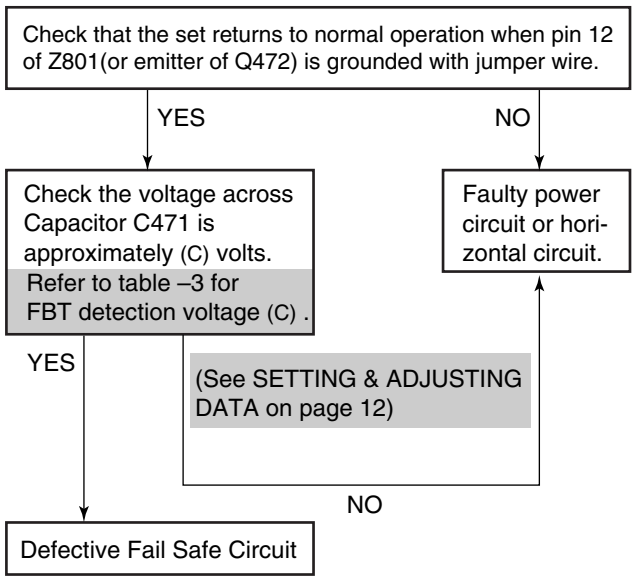
1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.
   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 11)
4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in servicing. Checking should be done following the steps below.

1. Turn the receiver on and press the RESET button.
2. Temporarily short TP-(R) and TP-(X) with a jumper wire. Raster and sound will disappear.
3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
4. To obtain a picture again, temporarily turn the receiver off and allow the FS circuit more than 5 seconds to reset. Then turn the power switch on to produce a normal picture.

Troubleshooting Guide for Fail Safe Circuit


Check that the set returns to normal operation when pin 12 of Z801(or emitter of Q472) is grounded with jumper wire.
YES
NO
Check the voltage across Capacitor C471 is approximately (C) volts.
Refer to table –3 for FBT detection voltage (C) .
Faulty power circuit or horizontal circuit.
YES
(See SETTING & ADJUSTING DATA on page 12)
NO
Defective Fail Safe Circuit

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		34"
HIGH VOLTAGE AT ZERO BEAM:	(A)	30.0 kV
MAX HIGH VOLTAGE:	(B)	35.0 kV

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Item	Name of adjustment	Preset	NORMAL & FULL
RCUT	R CUT OFF	40H	←
GCUT	G CUT OFF	40H	←
BCUT	B CUT OFF	40H	←
GDRV	G DRIVE	40H	←
BDRV	B DRIVE	40H	←
BRTC	BRIGHT CENTER	80H	←
UVTT	TINT CENTTER	46H	←
HIT	PICTURE HIT	2FH	←

Item	Name of adjustment	Preset	NORMAL & FULL
LIN	V-LINEARITY	12H	←
WID	PICTURE WIDTH	3DH	←
PARA	E-W PARABOLA	15H	←
CNR	EW M CORRECTION	17H	←
TRAP	EW TRAPEZIUM	3CH	←
HPOS	H-POSITION	4CH	←
TCNR	EW TOP CORNER	10H	←
BTNR	EW BOTTOM COR	10H	←

Table-2

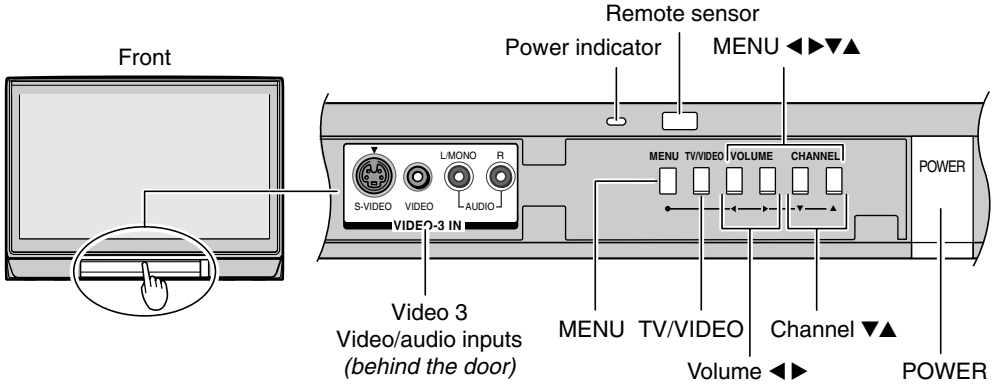
【 CIRCUIT CHECKS 】

FBT DETECTION VOLTAGE	(C)	20.1 V

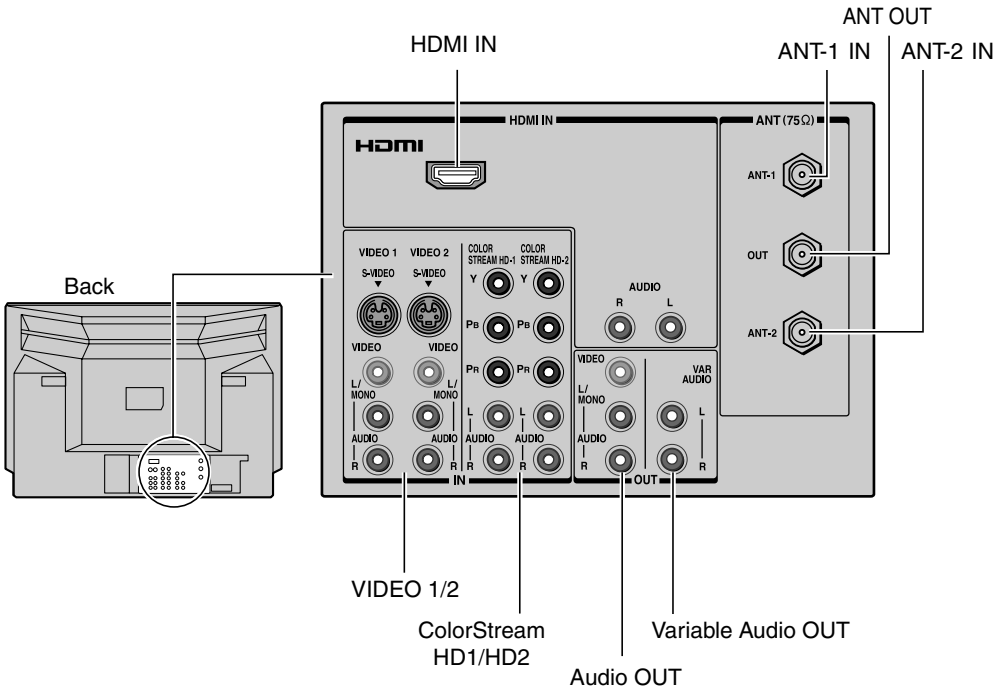
Table-3

LOCATION OF CONTROLS

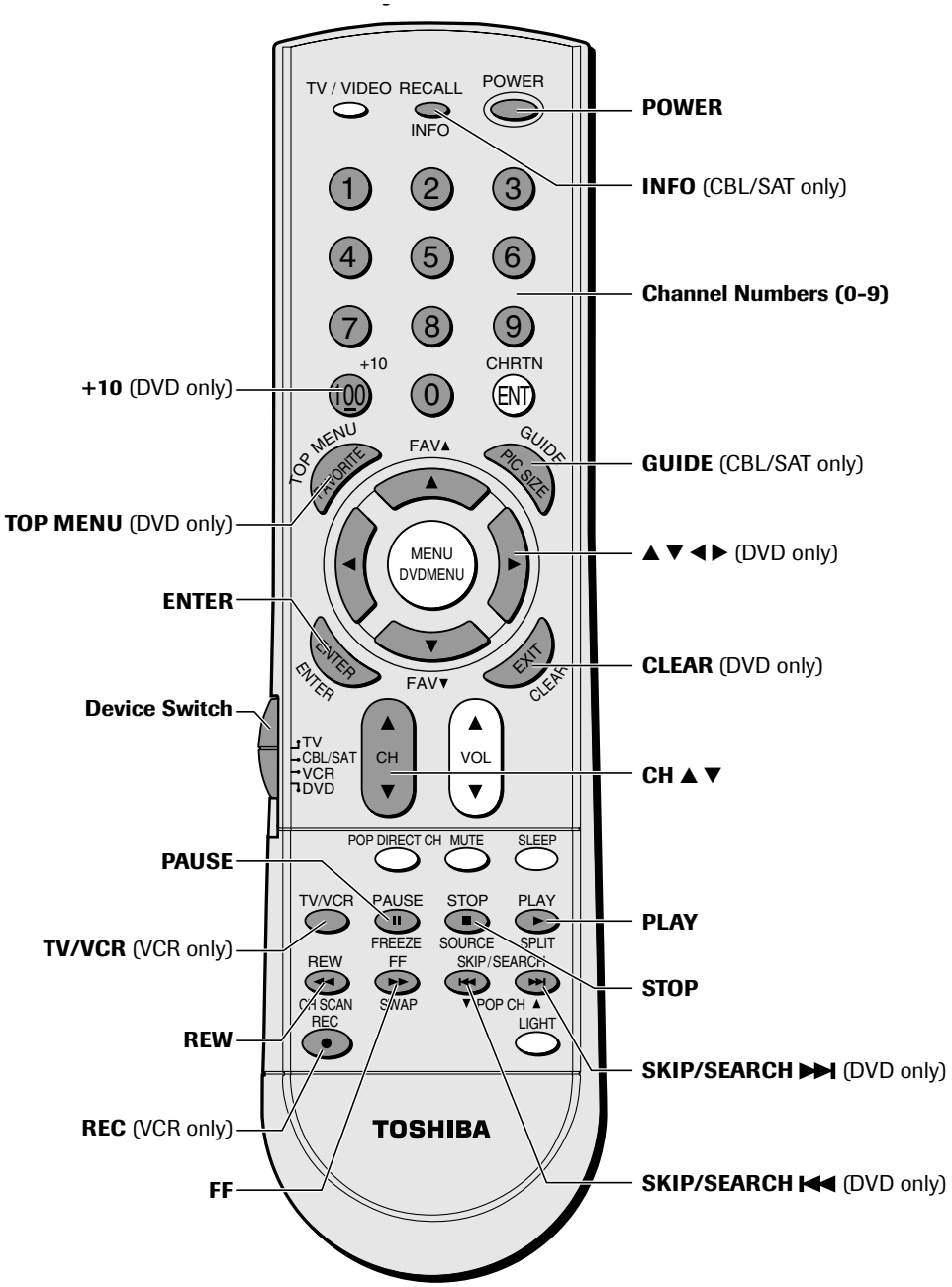
TV Front



TV Rear



Remote Control



ADDING CHANNELS TO THE TV'S MEMORY

When you press Channel ▲ or ▼, your TV will stop only on the channels stored in the TV's channel memory. Follow the steps below and on the next page to program all active channels into the TV's memory.

Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are stored automatically, you can manually add or erase individual channels .

To program channels automatically:

1. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
2. Press ▲ or ▼ until the TV/CABLE is highlighted, and then press ENTER to display the pull-down menu.
3. Press ▲ or ▼ to highlight either TV or CABLE, depending on which you use. If you use an antenna, highlight TV; if you use cable, highlight CABLE.
4. Press ENTER.
5. Press ▼ to select CH PROGRAM.
6. Press ENTER to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.
   While the TV is cycling through the channels, the message "Programming Now"–Please Wait" appears.
7. When channel programming is complete,the message "Completed" appears.
8. Press Channel ▲ or ▼ to view the programmed channels.

Adding and erasing channels manually

After you have programmed the channels automatically, you can manually add or erase specific channels.

To add or erase channels:

1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
2. Press MENU, and then press ◀ or ▶ until the SET UP menu appears.
3. Press ▲ or ▼ to highlight ADD/ERASE, and then press ENTER to display the pull-down menu.
4. Press ▲ or ▼ to select ADD or ERASE, depending on the function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate com-ponents which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Model : 34HF84

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	: Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	: Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C101	24797339	ELECTROLYTIO CE04G, 50V 3.3UF M
C102	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A
C105	24100102	CERAMIC CHIP, 50V F 1000PF Z
C106	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C107	24666221	ELECTROLYTIC 04Q, 16V 220UF M 3A
C108	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A
C109	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C110	24794101	ELECTROLYTIC, 16V 100UF M
C301	24567104	PLASTIC FILM, 50V 0.1UF J
C302	24567224	PLASTIC FILM, 50V 0.22UF J
C304	24082991	PLASTIC FILM, 250V 0.22 UF J
C305	24109822	CERAMIC CHIP, 50V B 8200PF K
C306	24669101	ELECTROLYTIC, 50V 100UF M 3A
C307	24666471	ELECTROLYTIC 04Q, 16V 470UF M 3A
C308	24109472	CERAMIC CHIP, 50V B 4700PF K
C309	24109471	CERAMIC CHIP, 50V B 470PF K
C310	24667102	ELECTROLYTIC, 25V 1000UF M 3A
C311	24109102	CERAMIC CHIP, 50V B 1000PF K
C313	24214561	CERAMIC DISC, 500V B 560PF K
C314	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C315	24092883	CERAMIC CHIP CK73B 50V 0.1UF K
C317	24567104	PLASTIC FILM, 50V 0.1UF J
C319	24092883	CERAMIC CHIP CK73B 50V 0.1UF K
C320	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C322	24539105	PLASTIC FILM, 50V 1UF J
C323	24539684	PLASTIC FILM, 50V 0.68UF J
C325	24591203	PLASTIC FILM, 50V 0.02UF J
C326	24669010	ELECTROLYTIC, 50V 1UF M 3A
C327	24073041	ELECTROLYTIC, 16V 470UF M 3A
C329	24503334	PLASTIC FILM CF92 T 250V 1R5UF J
C330	24539105	PLASTIC FILM, 50V 1UF J
C332	24109473	CERAMIC CHIP, 25V B 0.047UF K
C333	24108330	CERAMIC CHIP, 50V SL 33PF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C336	24108101	CERAMIC CHIP, 50V SL 100PF J
C337	24092614	CERAMIC CHIP CK732B 16V 150000PF K
C341	24214101	CERAMIC DISC, 500V B 100PF K
C342	24214101	CERAMIC DISC, 500V B 100PF K
C362	24591682	PLASTIC FILM, 50V 6800PF J
C370	24666100	ELECTROLYTIC, 10V 10UF M 3A

Location No.	Parts No.	Description
C413	24214392	CERAMIC DISC, 500V B 3900PF K
C416	24676330	ELECTROLYTIC, 100V 33UF M 3A
C417	24214391	CERAMIC DISC, 500V B 390PF K
C418	24667221	ELECTROLYTIC CE04Q, 25V 220UF M 3A
C419	24590102	PLASTIC FILM, 50V 1000PF J
⚠C428	24503192	PLASTIC FILM, 400V 0.15UF J
C430	24539334	PLASTIC FILM, 50V 0.33UF J
C431	24539104	PLASTIC FILM, 50V 0.1UF J
C432	24666100	ELECTROLYTIC, 10V 10UF M 3A
C439	24503457	PLASTIC FILM CQ92 T 400V 56000PF J
⚠C442	24503190	PLASTIC FILM, 400V 0.12UF J
⚠C443	24503348	PLASTIC FILM 1800VH 3900PF H
⚠C444	24503195	PLASTIC FILM, 1800VH 5100PF H
C445	24095804	PLASTIC FILM, 400V 0.056UF J
C446	24073120	ELECTRPLYTIC, 250V 33UF, 250YXF33M
C448	24073118	ELECTROLYTIC, 160V 33UF M
C450	24214222	CERAMIC DISC, 500V B 2200PF K
C451	24214222	CERAMIC DISC, 500V B 2200PF K
C452	24820103	PLASTIC FILM, 630V 0.01UF J
⚠C461	24820123	PLASTIC FILM, 630V 0.012UF J
C464	24503149	PLASTIC FILM, 250V 3.3UF
C465	24591183	PLASTIC FILM, 50V 0.018UF J
C466	24679220	ELECTROLYTIC, 250V 22UF M 3A
⚠C467	24820123	PLASTIC FILM, 630V 0.012UF J
C468	24591823	PLASTIC FILM, 50V 0.082UF J
C469	24591821	PLASTIC FILM, 50V 820PF J
C470	24766220	ELECTROLYTIC 04G, 50V 22UF M
C471	24766479	ELECTROLYTIC, 50V 4.7UF M
C472	24539474	PLASTIC FILM, 50V 0.47UF J
C476	24214471	CERAMIC DISC, 500V B 470PF K
C477	24666220	ELECTROLYTIC, 16V 22UF M 3A
C488	24666100	ELECTROLYTIC, 10V 10UF M 3A
C489	24212103	CERAMIC DISC, 50V B 10000PF K
C499	24829333	PLASTIC FILM, 400V 0.033UF J
C603	24669101	ELECTROLYTIC, 50V 100UF M 3A
C605	24109103	CERAMIC CHIP, 50V B 0.01UF K
C607	24797470	ELECTROLYTIC 04G, 50V 47UF M
C613	24666471	ELECTROLYTIC 04Q, 16V 470UF M 3A
C615	24666220	ELECTROLYTIC, 16V 22UF M 3A
C661	24073083	ELECTROLYTIC CE04P 50V 3.3UF M 3A
C662	24073083	ELECTROLYTIC CE04P 50V 3.3UF M 3A

Location No.	Parts No.	Description
C663	24212331	CERAMIC DISC, 50V B 330PF K
C664	24212331	CERAMIC DISC, 50V B 330PF K
C671	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C672	24073084	ELECTROLYTIC, 50V 4.7UF M 3A
C675	24667470	ELECTROLYTIC CE04Q, 25V 47UF M 3A
C676	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C677	24503042	PLASTIC FILM, 63V 0.12UF J
C678	24503041	PLASTIC FILM , 63V 0.1UF J
C680	24669222	ELECTROLYTIC, 50V 2200UF M 3A
C681	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C682	24668102	ELECTROLYTIC, 35V 1000UF M 3A
C684	24109103	CERAMIC CHIP, 50V B 0.01UF K
C691	24797479	ELECTROLYTIC, 50V 4.7UF M
C693	24590102	PLASTIC FILM, 50V 1000PF J
C694	24590102	PLASTIC FILM, 50V 1000PF J
C704	24591822	PLASTIC FILM, 50V 8200PF J
C705	24232103	CERAMIC DISC, 50V F 0.01UF Z
C707	24794470	ELECTROLYTIC, 16V 47UF M
C712	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A
C713	24709100	ELECTROLYTIC, 200V 10UF M
C714	24436101	CERAMIC DISC, 50V SL 100PF J
C715	24214472	CERAMIC DISC, 500V B 4700PF K
C716	24436101	CERAMIC DISC, 50V SL 100PF J
C717	24214472	CERAMIC DISC, 500V B 4700PF K
C718	24766470	ELECTROLYTIC, 50V 47UF M
C719	24435560	CERAMIC DISC, 500V SL 56PF J
C720	24709100	ELECTROLYTIC, 200V 10UF M
C721	24797470	ELECTROLYTIC 04G, 50V 47UF M
C726	24212102	CERAMIC DISC, 50V B 1000PF K
⚠ C801	24503512	MT PLA PHE840MX6220MB06MR
⚠ C802	24503511	MT PLA PHE840MB6100MB05
C805	24092623	CERAMIC DISC, 250V F 0.01UF Z
C806	24092623	CERAMIC DISC, 250V F 0.01UF Z
C808	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C810	24086062	ELECTROLYTIC, 200V 1000UF M 3F
C813	24092593	CERAMIC DISC, AC250V E 1000PF M
C814	24092593	CERAMIC DISC, AC250V E 1000PF M
⚠ C815	24092583	CERAMIC DISC, AC250V E 2200PF M
⚠ C816	24092591	CERAMIC DISC, AC250V B 470PF K
C817	24092339	CERAMIC DISC, 2KV 330PF K
C818	24503237	PLASTIC FILM CF92 T 1250VH 2200PF H
C821	24214471	CERAMIC DISC, 500V B 470PF K
C823	24212471	CERAMIC DISC, 50V B 470PF K
C829	24591222	PLASTIC FILM, 50V 2200PF J
C830	24591103	PLASTIC FILM, 50V 0.01UF J
C834	24539334	PLASTIC FILM, 50V 0.33UF J
C835	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A
C836	24762222	ELECTROLYTIC, 10V 2200UF M 3D
C840	24679220	ELECTROLYTIC, 250V 22UF M 3A
C841	24073043	ELECTROLYTIC, 16V 2200UF M 3A
C842	24503041	PLASTIC FILM , 63V 0.1UF J
C843	24092469	CERAMIC DISC, 2KV B 100PF K
C844	24793221	ELECTROLYTIC, 10V 220UF M
C845	24073082	ELECTROLYTIC, 50V 2.2UF M 3A
C884	24073215	ELECTROLYTEC CE04Q 160V 220UF M
C886	24214471	CERAMIC DISC, 500V B 470PF K
C889	24797222	ELECTROLYTIC, 50V 2200UF M
C890	24503041	PLASTIC FILM , 63V 0.1UF J
C891	24073161	ELECTROLYTIC CE04P 16V 3900UF M 3A
C892	24073172	ELECTROLYTIC CE04P 25V 1000UF M 3A
C893	24092339	CERAMIC DISC, 2KV 330PF K
C896	24214471	CERAMIC DISC, 500V B 470PF K
C898	24434100	CERAMIC DISC, 500V SL 10PF D
C899	24214471	CERAMIC DISC, 500V B 470PF K
C901	24503507	PLASTIC FILM, AC275V 0.22UF K
C902	24092353	CERAMIC DISC, 2KV 4700PF K

Location No.	Parts No.	Description
C904	24436471	CERAMIC DISC, 50V SL 470PF J
C905	24436391	CERAMIC DISC, 50V SL 390PF J
C907	24436561	CERAMIC DISC, 50V SL 560PF J
C909	24679220	ELECTROLYTIC, 250V 22UF M 3A
C910	24669478	ELECTROLYTIC, 50V 0.47UF M 3A
C911	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C912	24073042	ELECTROLYTIC, 04P 16V 1000UF M 3A
C913	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C914	24232103	CERAMIC DISC, 50V F 0.01UF Z
C918	24503041	PLASTIC FILM , 63V 0.1UF J
C919	24503041	PLASTIC FILM , 63V 0.1UF J
C920	24503041	PLASTIC FILM , 63V 0.1UF J
C921	24503041	PLASTIC FILM , 63V 0.1UF J
C922	24436390	CERAMIC DISC, 50V SL 39PFJ
C930	24214102	CERAMIC DISC, 500V B 1000PF K
C931	24214101	CERAMIC DISC, 500V B 100PF K
C941	24432100	CERAMIC DISC, 50V SL 10PF K
C942	24432100	CERAMIC DISC, 50V SL 10PF K
C943	24432100	CERAMIC DISC, 50V SL 10PF K
C3100	24667102	ELECTROLYTIC, 25V 1000UF M 3A
C4211	24539104	PLASTIC FILM, 50V 0.1UF J
C4690	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4691	24109822	CERAMIC CHIP, 50V B 8200PF K
C4693	24591473	PLASTIC FILM, 50V 0.047UF J
C4710	24092538	CERAMIC CHIP, 10V F 1UF Z
C4711	24092743	CERAMIC CHIP, 10V F 0.47UF Z
C8341	24667100	ELECTROLYTIC, 16V 10UF M 3A
C8342	24539334	PLASTIC FILM, 50V 0.33UF J
C8344	24539334	PLASTIC FILM, 50V 0.33UF J
C8345	24539334	PLASTIC FILM, 50V 0.33UF J
C8347	24665220	ELECTROLYTIC, 10V 22UF M 3A
C8348	24665220	ELECTROLYTIC, 10V 22UF M 3A
C8349	24666100	ELECTROLYTIC, 10V 10UF M 3A
C8350	24666100	ELECTROLYTIC, 10V 10UF M 3A
C8351	24073150	ELECTROLYTIC CE04P 16V 56UF M 3A
C8352	24666100	ELECTROLYTIC, 10V 10UF M 3A
C8353	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
C8355	24092730	CERAMIC CHIP, 16V B 0.1UF K
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CC07	24109102	CERAMIC CHIP, 50V B 1000PF K
CC08	24109102	CERAMIC CHIP, 50V B 1000PF K
CC09	24109102	CERAMIC CHIP, 50V B 1000PF K
CC10	24109102	CERAMIC CHIP, 50V B 1000PF K
CJ01	24567104	PLASTIC FILM, 50V 0.1UF J
CJ02	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A
CJ03	24567104	PLASTIC FILM, 50V 0.1UF J
CJ04	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A
CJ05	24794101	ELECTROLYTIC, 16V 100UF M
CJ06	24232103	CERAMIC DISC, 50V F 0.01UF Z
CS01	24797100	ELECTROLYTIC, 50V 10UF M
CS02	24797100	ELECTROLYTIC, 50V 10UF M
CS05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CS07	24206479	ELECTROLYTIC, 50V 4.7UF M 7L 3A
CS08	24206479	ELECTROLYTIC, 50V 4.7UF M 7L 3A
CS20	24797479	ELECTROLYTIC, 50V 4.7UF M
CS25	24797479	ELECTROLYTIC, 50V 4.7UF M
CS40	24092538	CERAMIC CHIP, 10V F 1UF Z
CS41	24092538	CERAMIC CHIP, 10V F 1UF Z
CS42	24092538	CERAMIC CHIP, 10V F 1UF Z
CS43	24092538	CERAMIC CHIP, 10V F 1UF Z
CS44	24092538	CERAMIC CHIP, 10V F 1UF Z
CS45	24092538	CERAMIC CHIP, 10V F 1UF Z
CS46	24092538	CERAMIC CHIP, 10V F 1UF Z
CS47	24092538	CERAMIC CHIP, 10V F 1UF Z
CS48	24092538	CERAMIC CHIP, 10V F 1UF Z
CS49	24092538	CERAMIC CHIP, 10V F 1UF Z

Location No.	Parts No.	Description
CS50	24092538	CERAMIC CHIP, 10V F 1UF Z
CS51	24092538	CERAMIC CHIP, 10V F 1UF Z
CS54	24092538	CERAMIC CHIP, 10V F 1UF Z
CS55	24092538	CERAMIC CHIP, 10V F 1UF Z
CS56	24092538	CERAMIC CHIP, 10V F 1UF Z
CS57	24794470	ELECTROLYTIC, 16V 47UF M
CS64	24794220	ELECTROLYTIC, 16V 22UF M
CV01	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV15	24092538	CERAMIC CHIP, 10V F 1UF Z
CV16	24794220	ELECTROLYTIC, 16V 22UF M
CV17	24092538	CERAMIC CHIP, 10V F 1UF Z
CV21	24092538	CERAMIC CHIP, 10V F 1UF Z
CV23	24092538	CERAMIC CHIP, 10V F 1UF Z
CV25	24092538	CERAMIC CHIP, 10V F 1UF Z
CV27	24092538	CERAMIC CHIP, 10V F 1UF Z
CV29	24092538	CERAMIC CHIP, 10V F 1UF Z
CV31	24092538	CERAMIC CHIP, 10V F 1UF Z
CV33	24092538	CERAMIC CHIP, 10V F 1UF Z
CV35	24092538	CERAMIC CHIP, 10V F 1UF Z
CV37	24092538	CERAMIC CHIP, 10V F 1UF Z
CV53	24092621	CERAMIC CHIP, 10V B 1UF K
CV57	24794101	ELECTROLYTIC, 16V 100UF M
CV65	24092538	CERAMIC CHIP, 10V F 1UF Z
CV67	24092538	CERAMIC CHIP, 10V F 1UF Z
CV69	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV70	24794101	ELECTROLYTIC, 16V 100UF M
CV71	24092538	CERAMIC CHIP, 10V F 1UF Z
CV73	24092538	CERAMIC CHIP, 10V F 1UF Z
CV75	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV76	24092538	CERAMIC CHIP, 10V F 1UF Z
CV79	24092538	CERAMIC CHIP, 10V F 1UF Z
CV81	24109102	CERAMIC CHIP, 50V B 1000PF K
CV82	24109102	CERAMIC CHIP, 50V B 1000PF K
CV100	24794100	ELECTROLYTIC, 16V 10UF M
CV101	24232103	CERAMIC DISC, 50V F 0.01UF Z
CV481	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV482	24794101	ELECTROLYTIC, 16V 100UF M
CV483	24794471	ELECTROLYTIC, 16V 470UF M
CV701	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CY102	24665221	ELECTROLYTIC CE04Q, 10V 220UF M 3A
CY105	24100102	CERAMIC CHIP, 50V F 1000PF Z
CY160	24815393	CERAMIC CHIP, 50V B 39000PF K
RESISTORS		
R101	24553223	OXIDE METAL FILM, 1W 22K OHM J
R150	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R151	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R152	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R173	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R174	24011273	CHIP, 1/20W 27K OHM J
R201	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R202	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R203	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R204	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R205	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R206	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
R217	24366103	CARBON FILM, 1/6W 10K OHM J
R218	24366333	CARBON FILM, 1/6W 33K OHM J
R219	24366563	CARBON FILM, 1/6W 56K OHM J
R227	24366273	CARBON FILM, 1/6W 27K OHM J
R228	24366562	CARBON FILM, 1/6W 5.6K OHM J
R303	24552151	OXIDE METAL FILM, 1/2W 150 OHM J
R305	24322109	OXIDE METAL FILM, 1W 1 OHM J
R315	24011274	CHIP, 1/20W 270K OHM J
R316	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R318	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
R319	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R320	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R321	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R322	24011274	CHIP, 1/20W 270K OHM J
R324	24011394	CHIP, 1/20W 390K OHM J
⚠ R327	24338159	OXIDE METAL FILM, 1W 1.5 OHM J
⚠ R328	24338159	OXIDE METAL FILM, 1W 1.5 OHM J
R329	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R330	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R331	24872823	CHIP, 1/16W 82K OHM J
R332	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R333	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R334	24998132	CHIP, 1/16W 1.3K OHM
R335	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R336	24383151	OXIDE METAL FILM, 2W 150 OHM J
R337	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R339	24366163	CARBON FILM, 1/6W 16K OHM J
R340	24553820	OXIDE METAL FILM, 1W 82 OHM J
R341	24998152	CHIP, METAL FILM, 1/16W 1.5K OHM
R342	24998153	CHIP, 1/16W 15K OHM
R346	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R348	24998682	CHIP, 1/16W 6.8K OHM D
R349	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R365	24552122	OXIDE METAL FILM, 1/2W 1.2K OHM J
R366	24011911	CHIP, METAL FILM, 1/20W 910 OHM J
R367	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R368	24003898	METAL FILM, 1/4W 3.3K OHM J
R370	24872103	CHIP, 1/16W 10K OHM J
R371	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R372	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R373	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R374	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R376	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R377	24366220	CARBON FILM, 1/6W 22 OHM J
R405	24553682	OXIDE METAL FILM, 1W 6.8K OHM J
R411	24366101	CARBON FILM, 1/6W 100 OHM J
R412	24323228	OXIDE METAL FILM, 2W 0.22 OHM J
R415	24383271	OXIDE METAL FILM, 2W 270 OHM J
R421	24531220	FUSIBLE, 1/2W 22 OHM J
R426	24366222	CARBON FILM, 1/6W 2.2K OHM J
R429	24553100	OXIDE METAL FILM, 1W 10 OHM J
R431	24531220	FUSIBLE, 1/2W 22 OHM J
R435	24367184	CARBON FILM, 1/6W 180K OHM G
R441	24383181	OXIDE METAL FILM, 2W 180 OHM J
R460	24366103	CARBON FILM, 1/6W 10K OHM J
R461	24366102	CARBON FILM, 1/6W 1K OHM J
R462	24366562	CARBON FILM, 1/6W 5.6K OHM J
R463	24366473	CARBON FILM, 1/6W 47K OHM J
R464	24366101	CARBON FILM, 1/6W 100 OHM J
⚠ R465	24011391	CHIP, 1/20W 390 OHM J
R466	24383220	OXIDE METAL FILM, 2W 22 OHM J
R467	24383220	OXIDE METAL FILM, 2W 22 OHM J
⚠ R468	24998113	CHIP, 1/16W 11K OHM
R469	24366823	CARBON FILM, 1/6W 82K OHM J
⚠ R470	24339518	OXIDE METAL FILM, 2W 0.51 OHM J
R471	24381271	OXIDE METAL FILM, 1/2W 270 OHM J
R472	24381270	OXIDE METAL FILM, 1/2W 27 OHM J
R473	24000247	METAL FILM, 1/4W 39K OHM F
R474	24872472	CHIP, 1/16W 4.7K OHM J
R475	24872912	CHIP, 1/16W 9.1K OHM J
R476	24000221	METAL FILM, 1/4W 20K OHM F
R477	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
⚠ R478	24338109	OXIDE METAL FILM, 1W 1 OHM J
R479	24381131	OXIDE METAL FILM, 1/2W 130 OHM J
R481	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R482	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J

Location No.	Parts No.	Description
R489	24011563	CHIP, METAL FILM, 1/20W 56K OHM J
R494	24367224	CARBON FILM, 1/6W 220K OHM G
R604	24000445	CHIP JUMPER, 1608TYPE
R605	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R606	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R607	24366561	CARBON FILM, 1/6W 560 OHM J
R609	24000445	CHIP JUMPER, 1608TYPE
R610	24000445	CHIP JUMPER, 1608TYPE
R612	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R613	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R614	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R615	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R616	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R650	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R651	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R653	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R661	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R662	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R663	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R664	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
R671	24366229	CARBON FILM, 1/6W 2.2 OHM J
R672	24366229	CARBON FILM, 1/6W 2.2 OHM J
R680	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R681	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R685	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R687	24011113	CHIP, METAL FILM, 1/20W 11K OHM J
R688	24000445	CHIP JUMPER, 1608TYPE
R693	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R694	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R697	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R702	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R709	24366563	CARBON FILM, 1/6W 56K OHM J
R713	24366393	CARBON FILM, 1/6W 39K OHM J
R715	24366273	CARBON FILM, 1/6W 27K OHM J
R716	24366273	CARBON FILM, 1/6W 27K OHM J
R717	24366333	CARBON FILM, 1/6W 33K OHM J
R718	24366222	CARBON FILM, 1/6W 2.2K OHM J
R719	24366101	CARBON FILM, 1/6W 100 OHM J
R720	24366102	CARBON FILM, 1/6W 1K OHM J
R721	24366101	CARBON FILM, 1/6W 100 OHM J
R722	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R723	24366101	CARBON FILM, 1/6W 100 OHM J
R724	24366101	CARBON FILM, 1/6W 100 OHM J
R725	24366182	CARBON FILM, 1/6W 1.8K OHM J
R730	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R731	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R732	24366330	CARBON FILM, 1/6W 33 OHM J
R733	24366683	CARBON FILM, 1/6W 68K OHM J
R734	24366330	CARBON FILM, 1/6W 33 OHM J
R735	24366683	CARBON FILM, 1/6W 68K OHM J
R736	24553470	OXIDE METAL FILM, 1W 47 OHM J
R737	24366681	CARBON FILM, 1/6W 680 OHM J
R738	24366102	CARBON FILM, 1/6W 1K OHM J
R739	24366681	CARBON FILM, 1/6W 680 OHM J
R740	24553470	OXIDE METAL FILM, 1W 47 OHM J
R741	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R742	24322229	OXIDE METAL FILM, 1W 2.2 OHM J
R743	24554181	OXIDE METAL FILM, 2W 180 OHM J
R744	24366122	CARBON FILM, 1/6W 1.2K OHM J
R745	24366122	CARBON FILM, 1/6W 1.2K OHM J
⚠ R808	24019493	THERMISTOR, PTC, AC140V 1.5 OHM M
⚠ R810	24045007	CEMENT 20W 1.2 J
R814	24366102	CARBON FILM, 1/6W 1K OHM J
R818	24007723	CEMENT 15W 27 J
R820	24004942	METAL FILM, 1W 0.1 OHM J
R821	24381330	OXIDE FILM 1/2W 33 J

Location No.	Parts No.	Description
R823	24366102	CARBON FILM, 1/6W 1K OHM J
R829	24004942	METAL FILM, 1W 0.1 OHM J
R832	24339568	OXIDE METAL FILM, 2W 0.56 OHM J
R834	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R835	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R840	24552562	OXIDE METAL FILM, 1/2W 5.6K OHM J
R841	24366102	CARBON FILM, 1/6W 1K OHM J
R842	24376563	CARB0N FILM, 1/2W 56K OHM J
R843	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R844	24366103	CARBON FILM, 1/6W 10K OHM J
R845	24376563	CARB0N FILM, 1/2W 56K OHM J
R861	24553153	OXIDE METAL FILM, 1W 15K OHM J
R883	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R884	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R885	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R886	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R899	24004717	METAL GLAZE, 1/2W 3.9M OHM J
R901	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R902	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R903	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R904	24366472	CARBON FILM, 1/6W 4.7K OHM J
R905	24366150	CARBON FILM, 1/6W 15 OHM J
R912	24366102	CARBON FILM, 1/6W 1K OHM J
R914	24366151	CARBON FILM, 1/6W 150 OHM J
R915	24366470	CARBON FILM, 1/6W 47 OHM J
R916	24366180	CARBON FILM, 1/6W 18 OHM J
R917	24366431	CARBON FILM, 1/6W 430 OHM J
R918	24366240	CARBON FILM, 1/6W 24 OHM J
R919	24366102	CARBON FILM, 1/6W 1K OHM J
R920	24000883	FUSIBLE, 1W 3.6 OHM J
R921	24366151	CARBON FILM, 1/6W 150 OHM J
R922	24366470	CARBON FILM, 1/6W 47 OHM J
R924	24366220	CARBON FILM, 1/6W 22 OHM J
R925	24366431	CARBON FILM, 1/6W 430 OHM J
R926	24366102	CARBON FILM, 1/6W 1K OHM J
R928	24366151	CARBON FILM, 1/6W 150 OHM J
R929	24366470	CARBON FILM, 1/6W 47 OHM J
R930	24366180	CARBON FILM, 1/6W 18 OHM J
R932	24366332	CARBON FILM, 1/6W 3.3K OHM J
R933	24545829	FUSIBLE, 1/4W 8.2 OHM J
R934	24366391	CARBON FILM, 1/6W 390 OHM J
R935	24366122	CARBON FILM, 1/6W 1.2K OHM J
R937	24366431	CARBON FILM, 1/6W 430 OHM J
R939	24366100	CARBON FILM, 1/6W 10 OHM J
R942	24366392	CARBON FILM, 1/6W 3.9K OHM J
R943	24366392	CARBON FILM, 1/6W 3.9K OHM J
R944	24366392	CARBON FILM, 1/6W 3.9K OHM J
R945	24366180	CARBON FILM, 1/6W 18 OHM J
R946	24366180	CARBON FILM, 1/6W 18 OHM J
R952	24366622	CARBON FILM, 1/6W 6.2K OHM J
R953	24366622	CARBON FILM, 1/6W 6.2K OHM J
R954	24366622	CARBON FILM, 1/6W 6.2K OHM J
R960	24383153	OXIDE METAL FILM, 2W 15K OHM J
R961	24383153	OXIDE METAL FILM, 2W 15K OHM J
R962	24383153	OXIDE METAL FILM, 2W 15K OHM J
R963	24383153	OXIDE METAL FILM, 2W 15K OHM J
R964	24383153	OXIDE METAL FILM, 2W 15K OHM J
R965	24383153	OXIDE METAL FILM, 2W 15K OHM J
R977	24366561	CARBON FILM, 1/6W 560 OHM J
R978	24383153	OXIDE METAL FILM, 2W 15K OHM J
R979	24383153	OXIDE METAL FILM, 2W 15K OHM J
R980	24366471	CARBON FILM, 1/6W 470 OHM J
R981	24366471	CARBON FILM, 1/6W 470 OHM J
R982	24366682	CARBON FILM, 1/6W 6.8K OHM J
R983	24366222	CARBON FILM, 1/6W 2.2K OHM J
R984	24367821	CARBON FILM, 1/6W 820 OHM G

Location No.	Parts No.	Description
R985	24367471	CARBON FILM, 1/6W 470 OHM G
R986	24367681	CARBON FILM, 1/6W 680 OHM G
R987	24367681	CARBON FILM, 1/6W 680 OHM G
R988	24367472	CARBON FILM, 1/6W 4.7K OHM G
R989	24367472	CARBON FILM, 1/6W 4.7K OHM G
R990	24366561	CARBON FILM, 1/6W 560 OHM J
R991	24367391	CARBON FILM, 1/6W 390 OHM G
R992	24366150	CARBON FILM, 1/6W 15 OHM J
R993	24383153	OXIDE METAL FILM, 2W 15K OHM J
R994	24383153	OXIDE METAL FILM, 2W 15K OHM J
R995	24383153	OXIDE METAL FILM, 2W 15K OHM J
R996	24383153	OXIDE METAL FILM, 2W 15K OHM J
R3330	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R3340	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R3901	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3902	24011133	CHIP, METAL FILM, 1/20W 13K OHM J
R3903	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R3904	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4111	24019259	FUSIBLE, 1/4W 27 OHM G
R4310	24011183	CHIP, METAL FILM, 1/20W 18K OHM J
R4461	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4500	24321229	OXIDE METAL FILM, 1/2W 2.2 OHM J
R4501	24553470	OXIDE METAL FILM, 1W 47 OHM J
R4504	24553470	OXIDE METAL FILM, 1W 47 OHM J
R4560	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4562	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4563	24011752	CHIP, METAL FILM, 1/20W 7.5K OHM J
R4564	24011183	CHIP, METAL FILM, 1/20W 18K OHM J
R4620	24998333	CHIP, 1/16W 33K OHM
R4630	24011183	CHIP, METAL FILM, 1/20W 18K OHM J
⚠ R4670	24998472	CHIP, 1/16W 4.7K OHM
R4690	24872103	CHIP, 1/16W 10K OHM J
R4691	24872242	CHIP, 1/16W 2.4K OHM J
R4692	24872471	CHIP, 1/16W 470 OHM J
R4693	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R4700	24011274	CHIP, 1/20W 270K OHM J
R4701	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R4702	24011271	CHIP, 1/20W 270 OHM J
R4703	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R4710	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4711	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4712	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4713	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4714	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4715	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4717	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4718	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4799	24872103	CHIP, 1/16W 10K OHM J
RA71	24366273	CARBON FILM, 1/6W 27K OHM J
RA72	24366153	CARBON FILM, 1/6W 15K OHM J
RA73	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA76	24366822	CARBON FILM, 1/6W 8.2K OHM J
RA77	24366153	CARBON FILM, 1/6W 15K OHM J
RB11	24366271	CARBON FILM, 1/6W 270 OHM J
RB12	24366103	CARBON FILM, 1/6W 10K OHM J
RB13	24366470	CARBON FILM, 1/6W 47 OHM J
RB20	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB21	24366104	CARBON FILM, 1/6W 100K OHM J
RB31	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RC01	24000445	CHIP JUMPER, 1608TYPE
RC02	24000445	CHIP JUMPER, 1608TYPE
RC03	24000445	CHIP JUMPER, 1608TYPE
RC04	24000445	CHIP JUMPER, 1608TYPE
RC05	24000445	CHIP JUMPER, 1608TYPE
RC06	24000445	CHIP JUMPER, 1608TYPE
RC07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
RC08	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC09	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC11	24000445	CHIP JUMPER, 1608TYPE
RC12	24000445	CHIP JUMPER, 1608TYPE
RJ01	24000633	METAL FILM, 1/4W 10K OHM F
RJ02	24000356	METAL FILM, 1/4W 820 OHM F
RJ03	24366512	CARBON FILM, 1/6W 5.1K OHM J
RJ05	24310159	OXIDE METAL FILM, 1/2W 1.5 OHM J
RJ06	24382471	OXIDE METAL FILM, 1W 470 OHM J
RJ07	24310109	OXIDE METAL FILM, 1/2W 1 OHM J
RJ08	24366102	CARBON FILM, 1/6W 1K OHM J
RJ09	24366102	CARBON FILM, 1/6W 1K OHM J
RJ10	24366102	CARBON FILM, 1/6W 1K OHM J
RS01	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RS02	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RS03	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS05	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RS06	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
RS07	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RS08	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RS13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS21	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS25	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS26	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS31	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS32	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS33	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS34	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS40	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS41	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS42	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS43	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS44	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS45	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS46	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS47	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS48	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS49	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS50	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS51	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS54	24000445	CHIP JUMPER, 1608TYPE
RS55	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS56	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS57	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS58	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS59	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS64	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RS65	24011182	CHIP, METAL FILM, 1/20W 1.8K OHM J
RS66	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RS67	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS69	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS70	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS71	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
RS72	24092795	CERAMIC CHIP CK73B 6.3V 2.2UP K
RS73	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS74	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS76	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS77	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV02	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV021	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV022	24011104	CHIP, METAL FILM, 1/20W 100K OHM J

Location No.	Parts No.	Description
RV081	24000445	CHIP JUMPER, 1608TYPE
RV15	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV17	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV21	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV23	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV27	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV31	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV33	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV35	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV45	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV46	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV64	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV65	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV67	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV69	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV70	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV71	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV73	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV75	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV77	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV79	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV81	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV82	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV83	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV84	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV85	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV86	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV100	24366750	CARBON FILM, 1/6W 75 OHM J
RV101	24366750	CARBON FILM, 1/6W 75 OHM J
RV102	24366750	CARBON FILM, 1/6W 75 OHM J
RV103	24366332	CARBON FILM, 1/6W 3.3K OHM J
RV332	24000445	CHIP JUMPER, 1608TYPE
RV333	24011181	CHIP, METAL FILM, 1/20W 180 OHM J
RV334	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV335	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RV481	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV482	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV483	24366221	CARBON FILM, 1/6W 220 OHM J
RV484	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV501	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV503	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV511	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV513	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV521	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV523	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV541	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV543	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV551	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV553	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV561	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV563	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV581	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV583	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RV591	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV593	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RV601	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV603	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RV701	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV702	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV761	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RV762	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RY160	24011471	CHIP, METAL FILM, 1/20W 470 OHM J

Location No.	Parts No.	Description
COIL & TRANSFORMERS		
L101	23289845	COIL, PEAKING, TRF4680AT
L103	23289844	COIL, PEAKING, TRF4470AT
L105	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
L301	23248370	COIL, CHOKE EI24 1.0MH TLN3543AH
L302	23289846	COIL, PEAKING, TRF4101AT
⚠ L441	23233110	COIL, LIN 22X40H 7A 12.5MMH TLN2227AH
L442	23248302	COIL, CHOKE, TLN3521GH
L450	23248305	COIL, CHOKE, TLN3346GH
L451	23233119	COIL, WID-H42-0.45-1.4MH TLN2232AH
⚠ L461	23248310	COIL, CHOKE, TLN3500GH
L463	23103145	FERRITE CHOKE, TEM2011AA
L464	23103145	FERRITE CHOKE, TEM2011AA
L491	23248191	COIL, CHOKE, TLN3351AD
L499	23248282	COIL, CHOKE, TLN3458AH
L702	23261974	COIL, FERRITE BEAD, HC5-035
L704	23103145	FERRITE CHOKE, TEM2011AA
L705	23103145	FERRITE CHOKE, TEM2011AA
L706	23237987	COIL, PEAKING, TRF4100AC
L803	23103145	FERRITE CHOKE, TEM2011AA
L805	23248213	COIL, CHOKE, TLN3481AH
L806	23248213	COIL, CHOKE, TLN3481AH
L808	23248213	COIL, CHOKE, TLN3481AH
L815	23103145	FERRITE CHOKE, TEM2011AA
L816	23103145	FERRITE CHOKE, TEM2011AA
L836	23248288	COIL, CHOKE, TLN3299GH
L840	23280019	COIL, PEAKING, TRF4330AZ
L883	23103145	FERRITE CHOKE, TEM2011AA
L884	23248288	COIL, CHOKE, TLN3299GH
L885	23222694	COIL, HORIZ WIDTH, TLN2026
L886	23103145	FERRITE CHOKE, TEM2011AA
L888	23248292	COIL, CHOKE, TLN3499GH
L889	23248292	COIL, CHOKE, TLN3499GH
L891	23103145	FERRITE CHOKE, TEM2011AA
L892	23103145	FERRITE CHOKE, TEM2011AA
L893	23280016	COIL, PEAKING, TRF4100AZ
L894	23248297	COIL, CHOKE, TLN3481GH
L897	23248321	COIL, CHOKE 15X23H 22MMH 4.2A TLN3462AH
⚠ L901	23200498	COIL, DG 0.75CU 50T-2LOOP TSB-2416AH
L902	23289930	COIL, PEAKING, TRF4101AU
L903	23289930	COIL, PEAKING, TRF4101AU
L904	23289930	COIL, PEAKING, TRF4101AU
L905	23289920	COIL, PEAKING COIL 15MMH TRF4150AU
L906	23289920	COIL, PEAKING COIL 15MMH TRF4150AU
L907	23289920	COIL, PEAKING COIL 15MMH TRF4150AU
L908	23289918	COIL, PEAKING, TRF4100AU
L910	23289949	COIL, PEAKING COIL 1.00MMH J TRF4109AW
L8311	23248247	COIL, CHOKE, TLN3499AH
L8312	23248247	COIL, CHOKE, TLN3499AH
⚠ LJ901	23200448	COIL, GEOMAGNETIC CORRECTION TSB-2408AG
LV03	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV04	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV05	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV50	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV51	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV52	23103159	FILTER, EMI, TEM2028AA, 7.5X6.4X8 60MMH 0.5A
LV55	23103146	EMI FILTER, TEM2030AA
LV60	23103146	EMI FILTER, TEM2030AA
LV70	23289840	COIL, PEAKING, TRF4100AT
LY101	23248296	COIL, CHOKE
LY102	23238506	COIL, PEAKING, TRF4229AJ
LY103	23238506	COIL, PEAKING, TRF4229AJ
T400	23224390	TRANSFORMER, FOCUS, TLN2226AH
T401	23224381	TRANSFORMER, HORIZ DRIVE, TLN1080GH
⚠ T461	23236835	TRANSFORMER, FLY-BACK TFB4215AD
⚠ T801	23211729	COIL, LINE FILTER, TRF3232AQ

Location No.	Parts No.	Description
⚠T802	23211713	COIL, LINE FILTER, TRF3197AQ
⚠T840	23217431	TRANSFORMER, CONVERTER, TPW3425AH
⚠T862	23217665	TRANSFORMER, CONVERTER TPW3548AS
SEMICONDUCTORS		
Q151	23205005	TRANSISTOR, KTA2014Y
Q152	23205006	TRANSISTOR, KTC4075Y
Q172	23205006	TRANSISTOR, KTC4075Y
Q220	23114460	TRANSISTOR, RN1204
Q301	23009931	IC, VERT.OUT CLASS D 2.5A STV9380A
Q302	23009930	IC, E-W CORRECTION IC TA1317AF TA1317AFG(DRY,EL)
Q370	23114497	TRANSISTOR, RN1406
Q371	23314204	TRANSISTOR, 2SC2412K,Q
Q372	23114497	TRANSISTOR, RN1406
Q373	23314204	TRANSISTOR, 2SC2412K,Q
Q374	23314204	TRANSISTOR, 2SC2412K,Q
Q392	23314204	TRANSISTOR, 2SC2412K,Q
Q393	23314204	TRANSISTOR, 2SC2412K,Q
Q394	23314204	TRANSISTOR, 2SC2412K,Q
Q402	23314862	TRANSISTOR, FET, 2SK941
Q404	23205149	TRANSISTOR, 2SC5859(FA)
Q404B	23850638	INSULATOR, TRANSISTOR, AC263
Q418	23314141	TRANSISTOR, 2SC3852
Q430	23009187	IC, REGULATOR +9V 4% KIA7809API
Q460	23205031	TRANSISTOR, FET, 2SK2920
Q470	23114759	TRANSISTOR, 2SA949-Y
Q484	23205045	TRANSISTOR, 2SA1037AKQ
Q486	23314204	TRANSISTOR, 2SC2412K,Q
Q601	23906597	IC, BA4558F
Q612	23314994	TRANSISTOR, 2SA1576A106
Q613	23114499	TRANSISTOR, RN1404
Q650	23314993	TRANSISTOR, 2SC4081 Q
Q670	23906880	IC, TA8246AH
Q671	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q672	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
Q705	23114433	TRANSISTOR, 2SC1815-Y
Q706	23114433	TRANSISTOR, 2SC1815-Y
Q707	23114437	TRANSISTOR, 2SC752GTM-Y
Q709	23114433	TRANSISTOR, 2SC1815-Y
Q710	23114425	TRANSISTOR, 2SA1015-Y(TE
Q711	23205269	TRANSISTOR, VCBO-160V IC-1.5A 2SA2005
Q712	23205270	TRANSISTOR, VCBO 160V 1.5A 2SC5511
Q719	23114433	TRANSISTOR, 2SC1815-Y
Q720	23114433	TRANSISTOR, 2SC1815-Y
Q801	23135047	IC, HYBRID IC STR-F6629B
Q805	23114498	TRANSISTOR, RN1405
Q831	23009546	IC, REGULATOR +5V 3% NJM2396F05D
Q832	23009549	IC, REGULATOR +9V 3% NJM2396F09D
Q833	23009967	IC, +5.0V 2% REG. TO220FP-3 BA50BC0T
Q834	23009546	IC, REGULATOR +5V 3% NJM2396F05D
Q838	23009976	IC, REGULATOR +3.3V 1% SSOP5 BH33FB1WG-TR
Q840	23135038	IC, MIP2900MPSCF
⚠Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠Q842	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q843	23314204	TRANSISTOR, 2SC2412K,Q
⚠Q862	23009270	IC, PHOTO COUPLER, PS2581L1(D)
⚠Q883	23009991	IC, ERROR AMP VS=133.7V TO220A SE133N, LF4
Q884	23314163	TRANSISTOR, 2SA1162-Y
Q901	23314780	TRANSISTOR, 2SC4544
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q903	23314780	TRANSISTOR, 2SC4544
Q904	23114433	TRANSISTOR, 2SC1815-Y
Q905	23314780	TRANSISTOR, 2SC4544
Q906	23114433	TRANSISTOR, 2SC1815-Y
Q907	23114735	TRANSISTOR, 2SA102-Y(C)
Q908	23114429	TRANSISTOR, 2SC2120-Y(TE

Location No.	Parts No.	Description
Q910	23114433	TRANSISTOR, 2SC1815-Y
Q911	23114433	TRANSISTOR, 2SC1815-Y
Q912	23114425	TRANSISTOR, 2SA1015-Y(TE
Q913	23114425	TRANSISTOR, 2SA1015-Y(TE
Q914	23114433	TRANSISTOR, 2SC1815-Y
Q4021	23314475	TRANSISTOR, 2SC2712-Y
Q4022	23314163	TRANSISTOR, 2SA1162-Y
Q4460	23314204	TRANSISTOR, 2SC2412K,Q
Q4461	23314204	TRANSISTOR, 2SC2412K,Q
Q4466	23114498	TRANSISTOR, RN1405
Q4690	23314204	TRANSISTOR, 2SC2412K,Q
Q4710	23314163	TRANSISTOR, 2SA1162-Y
Q4711	23314204	TRANSISTOR, 2SC2412K,Q
Q4712	23314204	TRANSISTOR, 2SC2412K,Q
QB11	23114528	TRANSISTOR, 2SC1740S
QB30	23314204	TRANSISTOR, 2SC2412K,Q
QJ02	23000808	IC, LA6500
QJ03	23314962	TRANSISTOR, KTA1266 Y
QS01	23009916	IC, A S/W SSOP-36A MM1631AJBE
QS04	23114493	TRANSISTOR, RN2404
QS05	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QS06	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QS07	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QS08	23205204	TRANSISTOR, NPN VEBO=25V KTC2875B-RTK
QS09	23114493	TRANSISTOR, RN2404
QS19	23314993	TRANSISTOR, 2SC4081 Q
QS41	23314993	TRANSISTOR, 2SC4081 Q
QS43	23314993	TRANSISTOR, 2SC4081 Q
QS102	23906597	IC, BA4558F
QV009	23205014	TRANSISTOR, 2SC4667-O
QV01	23009940	IC, VIDEO S/W MM1630AQ
QV48	23314965	TRANSISTOR, KTC3198 Y
QV50	23314993	TRANSISTOR, 2SC4081 Q
QV51	23314993	TRANSISTOR, 2SC4081 Q
QV52	23314993	TRANSISTOR, 2SC4081 Q
QV54	23314993	TRANSISTOR, 2SC4081 Q
QV55	23314993	TRANSISTOR, 2SC4081 Q
QV56	23314993	TRANSISTOR, 2SC4081 Q
QV58	23314993	TRANSISTOR, 2SC4081 Q
QV59	23314993	TRANSISTOR, 2SC4081 Q
QV60	23314993	TRANSISTOR, 2SC4081 Q
QY160	23205006	TRANSISTOR, KTC4075Y
D101	23316755	DIODE, ZENER, MTZJ33C
D302	23357366	DIODE, FR105-B5
D303	23357366	DIODE, FR105-B5
D318	23118859	DIODE, 1SS133
D321	23316753	DIODE, ZENER, MTZJ33A
D327	23118515	DIODE, ZENER, RD11ESA B1
D330	23357457	DIODE, TVS VRWM=64V VBR=74.85V SA64ALF
D365	23118526	DIODE, ZENER, RD6.8ES B2
D372	23118859	DIODE, 1SS133
D373	23118859	DIODE, 1SS133
D404	23224366	DIODE, FMQ-3GU
D404C	72131002	BEAD CORE, BF04RI3.5031.3
D406	23357366	DIODE, FR105-B5
D412	23357366	DIODE, FR105-B5
D414	23357366	DIODE, FR105-B5
D415	23357366	DIODE, FR105-B5
D419	23118514	DIODE, ZENER, RD11ESA B2
D420	23118538	DIODE, ZENER, RD6.2ESA B2
D431	23118621	DIODE, ZENER, RD10ESA B3
D462	23316725	DIODE, ZENER, MTZJ15B
D465	23357366	DIODE, FR105-B5
D469	23118859	DIODE, 1SS133
D470	23316758	DIODE, ZENER, MTZJ36B
D471	23357366	DIODE, FR105-B5

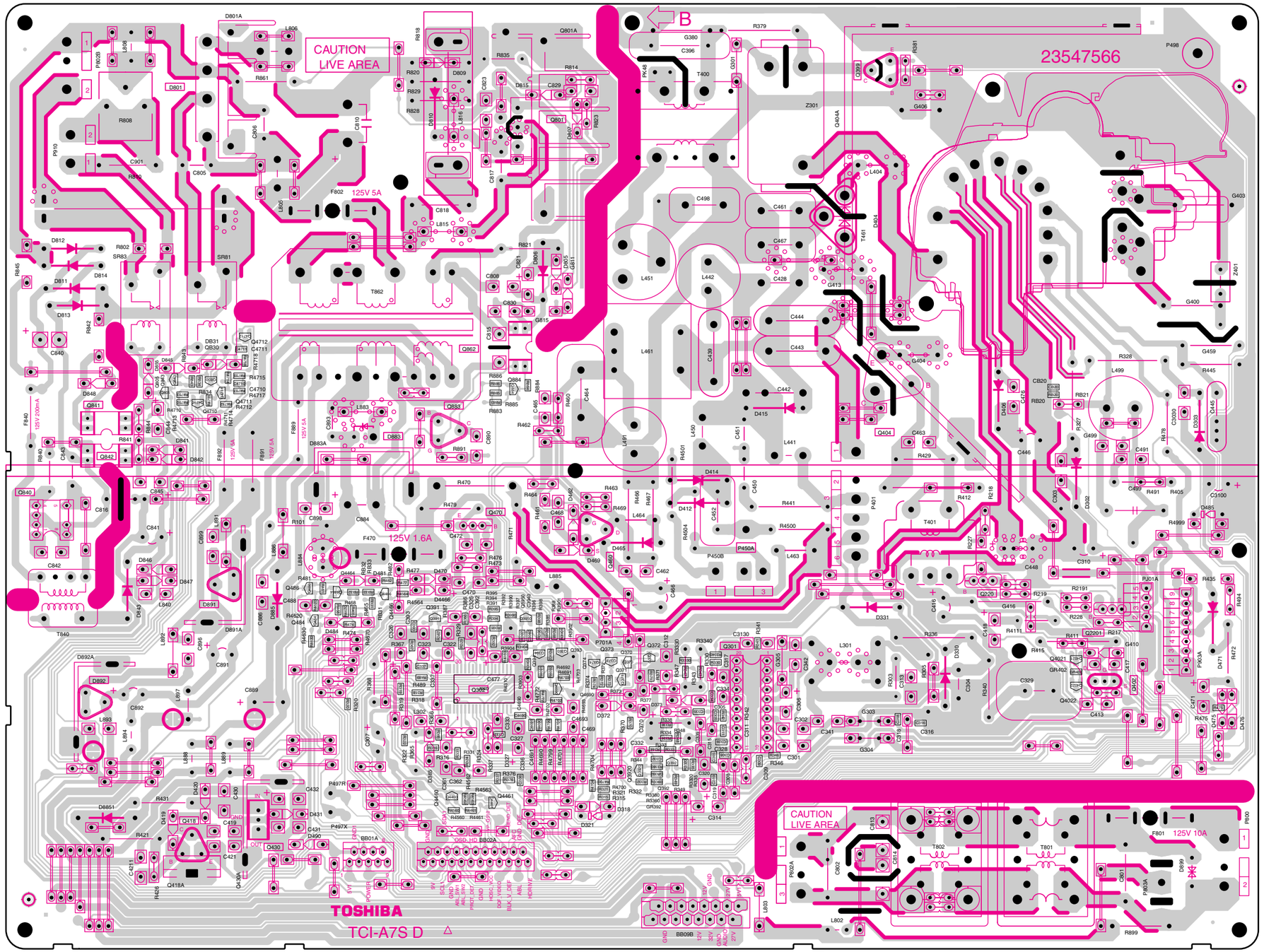
Location No.	Parts No.	Description
D475	23118510	DIODE, ZENER, RD12ES
D476	23118859	DIODE, 1SS133
D481	23118859	DIODE, 1SS133
⚠D484	23115774	DIODE, ZENER, RD6.2E(FA-1)
D485	23118516	DI0DE, ZENER, RD9.1ES B3
D490	23118859	DIODE, 1SS133
D601	23316740	DIODE, ZENER, MTZ J 22D
D612	23118041	DIODE, MA111
D613	23118041	DIODE, MA111
D614	23118041	DIODE, MA111
D660	23118041	DIODE, MA111
D661	23118041	DIODE, MA111
D662	23118041	DIODE, MA111
D670	23118041	DIODE, MA111
D671	23118041	DIODE, MA111
D674	23118041	DIODE, MA111
D675	23118041	DIODE, MA111
D698	23118041	DIODE, MA111
D704	23118859	DIODE, 1SS133
D705	23118859	DIODE, 1SS133
D715	23118859	DIODE, 1SS133
D721	23118859	DIODE, 1SS133
⚠D801	23316393	DIODE, VRM=600V IO=6A SIP D5SB60, 4009 F05
D805	23118859	DIODE, 1SS133
D806	23357366	DIODE, FR105-B5
D807	23118859	DIODE, 1SS133
D809	23316746	DIODE, ZENER, MTZJ27B
⚠D811	23357365	DIODE, 1N4004A-B5
⚠D812	23357365	DIODE, 1N4004A-B5
⚠D813	23357365	DIODE, 1N4004A-B5
⚠D814	23357365	DIODE, 1N4004A-B5
D841	23316673	DIODE, ZENER, MTZJ5.6C
D842	23316665	DIODE, ZENER, MTZJ4.7A
D843	23118094	DIODE, EU2A
D845	23118859	DIODE, 1SS133
D846	23118633	DIODE, ZENER, RD3.0ES B2
D847	23118633	DIODE, ZENER, RD3.0ES B2
D848	23118859	DIODE, 1SS133
D855	23118859	DIODE, 1SS133
D883	23316803	DIODE, FMU-G16S
D885	23316714	DIODE, RL2Z
D891	23316768	DIODE, FMB-26L
D892	23357042	DIODE, FMX-12S(023-108)
⚠D899	24019485	VARISTOR, TNR10V431K
D901	23118859	DIODE, 1SS133
D904	23118859	DIODE, 1SS133
D905	23118859	DIODE, 1SS133
D906	23118859	DIODE, 1SS133
D907	23118859	DIODE, 1SS133
D908	23118859	DIODE, 1SS133
D909	23118859	DIODE, 1SS133
D911	23357366	DIODE, FR105-B5
D931	23118859	DIODE, 1SS133
D932	23118859	DIODE, 1SS133
D933	23118859	DIODE, 1SS133
D934	23118859	DIODE, 1SS133
D941	23118859	DIODE, 1SS133
D942	23118859	DIODE, 1SS133
D943	23118859	DIODE, 1SS133
D946	23118859	DIODE, 1SS133
D963	23118859	DIODE, 1SS133
D964	23118859	DIODE, 1SS133
D965	23118859	DIODE, 1SS133
D966	23118859	DIODE, 1SS133
D4466	23316753	DIODE, ZENER, MTZJ33A
D8851	23316714	DIODE, RL2Z
D8852	23316714	DIODE, RL2Z
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB03	23358522	DIODE, LED, SIR-56SB3F
DB05	23118538	DIODE, ZENER, RD6.2ESA B2
DB30	23316792	DIODE, SC215
DB31	23118859	DIODE, 1SS133 @U002
	23118859	DIODE, 1SS133 @UA02
DB36	23118529	DIODE, ZENER, RD5.6ES B2
DB37	23118529	DIODE, ZENER, RD5.6ES B2
DV70	23316591	DIODE, ZENER, MA8100-M
DV76	23316591	DIODE, ZENER, MA8100-M
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2
MISCELLANEOUS		
B110	23940020	PIECE, BACK TERMINAL BOARD 34H 34HF84
B112	23940059	PIECE, COVER(BTB) 34HF84
B251	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
BB03A	23713201	CONNECTOR, PLUG B-B 16P
BB04A	23713201	CONNECTOR, PLUG B-B 16P
BB05A	23713201	CONNECTOR, PLUG B-B 16P
BB06A	23713201	CONNECTOR, PLUG B-B 16P
BB07A	23713201	CONNECTOR, PLUG B-B 16P
BB08A	23713201	CONNECTOR, PLUG B-B 16P
BB09A	23713201	CONNECTOR, PLUG B-B 16P
BB09B	23713202	CONNECTOR, SOCKET B-B 16P
D404B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D404E	23960136	ADHESIVE, SILICONE, TSE3843-W
D801B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D883B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D891B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
D892B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
E931	23974994	BAND, KESSOKU
⚠F470	23144854	FUSE
F470A	23165433	FUSE HOLDER, 5.2 SOC
F470B	23165433	FUSE HOLDER, 5.2 SOC
⚠F801	23144518	FUSE, CARTRIDGE, 125V 10A
F801A	23165433	FUSE HOLDER, 5.2 SOC
F801B	23165433	FUSE HOLDER, 5.2 SOC
⚠F802	23144682	FUSE, 125V 5.0A, CARTRIDGE 5X20
F802A	23165433	FUSE HOLDER, 5.2 SOC
F802B	23165433	FUSE HOLDER, 5.2 SOC
⚠F840	23144581	FUSE, AXIAL, 125V 200MA
⚠F889	23144715	FUSE, AXIAL 125V 5.0A
⚠F891	23144715	FUSE, AXIAL 125V 5.0A
⚠F892	23144715	FUSE, AXIAL 125V 5.0A
G101	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
G102	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
G303	23103248	FERRITR CHOKE, TEM2014AA
G304	23103248	FERRITR CHOKE, TEM2014AA
G305	23103145	FERRITE CHOKE, TEM2011AA
G400	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
G403	24946223	CARBON COMPOSITION GF 1/2W 22K K
G404	23103145	FERRITE CHOKE, TEM2011AA
G410	23316731	DIODE, ZENER, MTZJ18B
G416	24382820	OXIDE METAL FILM, 1W 82 OHM J
G499	24503361	PLASTIC FILM CQ921 M 100V 1200PF J
G811	23118859	DIODE, 1SS133
G815	24366332	CARBON FILM, 1/6W 3.3K OHM J
GJ105	24000445	CHIP JUMPER, 1608TYPE
GJ107	24000445	CHIP JUMPER, 1608TYPE
GJ108	24000445	CHIP JUMPER, 1608TYPE
GJ170	24000445	CHIP JUMPER, 1608TYPE
GR103	24000445	CHIP JUMPER, 1608TYPE
GR392	24000445	CHIP JUMPER, 1608TYPE
GR650	24000445	CHIP JUMPER, 1608TYPE
GRS06	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
⚠H002	23148082	IF MODULE, US BUFFER 6M_TRAP MVUS51A
H003	23124087	ANTENNA SWITCH, RSU135X1, 2I3O BUNPAI US
H003A	23740989	NUT, F-CONNECTOR 2H BS
J401A	23960136	ADHESIVE, SILICONE, TSE3843-W
M461A	23192957	ANODE CAP ASSY, TCC5602AT
M461B	23505090	CABLE, CABLE FOCUS
M461C	23505089	CABLE, FOCUS
M461D	23504719	CABLE, SCREEN
P105	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P602	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P701A	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P701B	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P703B	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
⚠P801	23372115	POWER CORD, U/C 125V10A HSV 4 CMC-02P 3
P801A	23103778	FERRITE CORE, TFE1008
P902B	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P903A	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
P903B	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
P910	23164725	CONNECTOR, PLUG 2P @U002
	23845834	LEAD CLAMPER
PB01A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
PJ01A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
PJ01B	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
PJ901	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
PV01	23023094	JACK, PIN 1S6P SMK LAP5120-0205FC
PV02	23365819	JACK, 1S3P @UA01
	23023096	JACK, PIN 10P SMK LAP5120-0401FC @U005
PV05	23023229	JACK, PIN 7P SMK LAP5120-0421F
PV12	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
PV13	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
PV14	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
PV15	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
Q404D	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q418B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q430B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q670B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q831B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q832B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q833B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q834B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
QJ02B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
SA01	23145227	SWITCH, PUSH, 1C1P
SA02	23145227	SWITCH, PUSH, 1C1P
SA03	23145227	SWITCH, PUSH, 1C1P
SA04	23145227	SWITCH, PUSH, 1C1P
SA05	23344335	SWITCH
SA06	23145227	SWITCH, PUSH, 1C1P
SA07	23145227	SWITCH, PUSH, 1C1P
⚠SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
⚠SR83	23146564	RELAY, DC12V, TV5, DG-3
⚠V901A	23903145	SOCKET, CRT, WFOCUS ISD35SE INCHANG ISD-35S-E
W661	23351156	SPEAKER, SPK1410AM, 60X120 8-OHM 10W
W662	23351156	SPEAKER, SPK1410AM, 60X120 8-OHM 10W
Z401	23140203	SPARK GAP, 2.0-3.0KV C-010, AG20PC152F-L3N
PC BOARD ASSEMBLIES		
✻ U001	23148104	HYPER SIGNAL MODUL, MHSU01
✻ U002	23761894	PC BOARD ASSY, POW/DEF PD1706A
✻ U004	23761895	PC BOARD ASSY, CRT-D/S PD1707A
✻ U005	23761896	PC BOARD ASSY, AV TERMINAL PD1708A
✻ UA01	23761897	PC BOARD ASSY, CONT PD1709-1
✻ UA02	23761898	PC BOARD ASSY, LED PD1709-2
✻ UV02	23148055	SCAN CONVERTER MODUL, 03DVI MHDM01
PICTURE TUBE		
⚠V901	23324106	PICTURE TUBE, 34VPF MTPD ITC W86MAG183X30

Location No.	Parts No.	Description
TUNER		
⚠H001	23321470	TUNER, US181CH IIC PH 5V SANYO ELA52LX4
⚠HY01	23321480	TUNER, TIF US IIC PH 181CH 5V ENG36A18GF
ACCESSORIES		
A701	23067637	CARTON, CARTON TNP 34HF84
A703	23946748	PACKING, TOP PACKING 34HF84
A708	23946749	PACKING, BOTTOM PACKING 34HF84
⚠K912	23306497	REMOCON HAND UNIT IR, CTVUSA CT-90159
⚠Y101	23566340	OWNERS MANUAL, ENGLISH/FRENCH 34HF84
CABINET PARTS		
⚠A201	23532718	COVER, F.CVR.ASSY 34HF84
A286	23845834	LEAD CLAMPER
A302	23538478	MARK, TOSHIBA MARK W=56 36DX100
A303	23929741	PIECE, HOLDER BUTTON 32D3000
A401	23532912	COVER, BACK COVER ASSY 34HF84
A902	23428287	DOOR, 34HF84
A903	23451976	PUSH CATCH, CLICK
A904	23445824	BUTTON, BUTTON POWER FACE 34HF84
A904B	23445721	BUTTON, BUTTON POWER REAR 32D4000

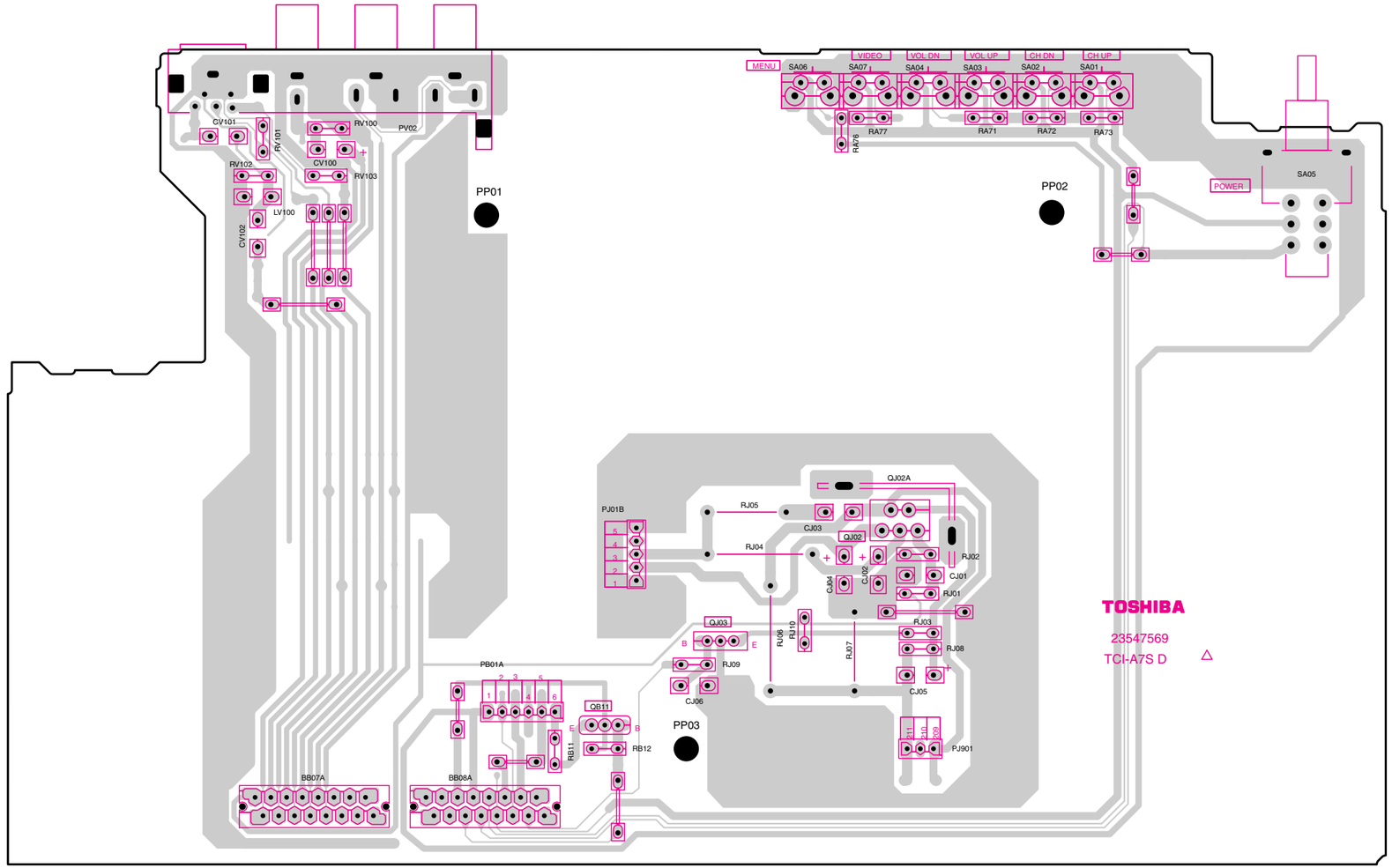
POWER/DEF BOARD PD1706A (U002)

BOTTOM (FOIL) SIDE



CONT BOARD PD1709-1 (UA01)

BOTTOM (FOIL) SIDE



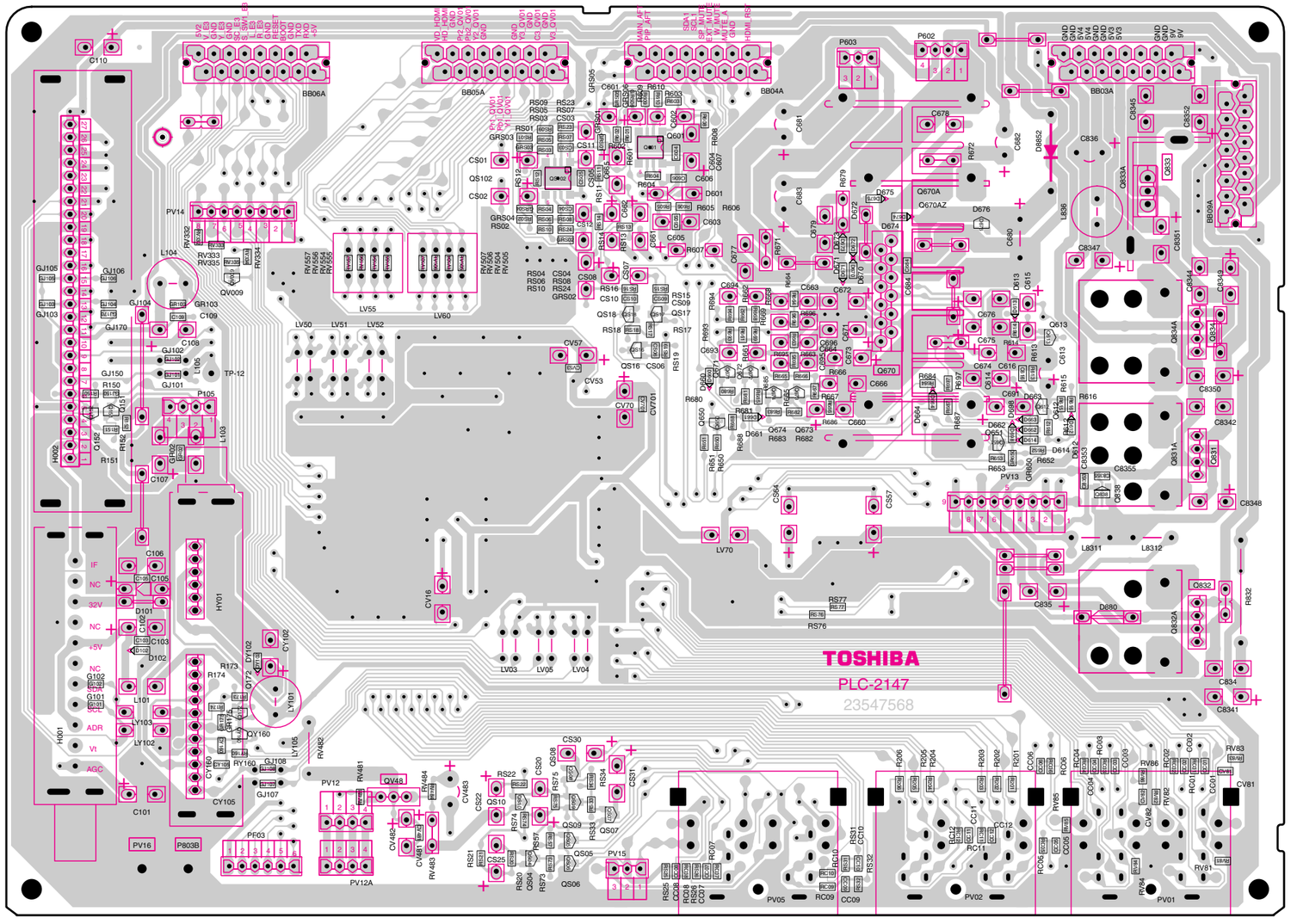
TOSHIBA

23547569

TCI-A7S D △

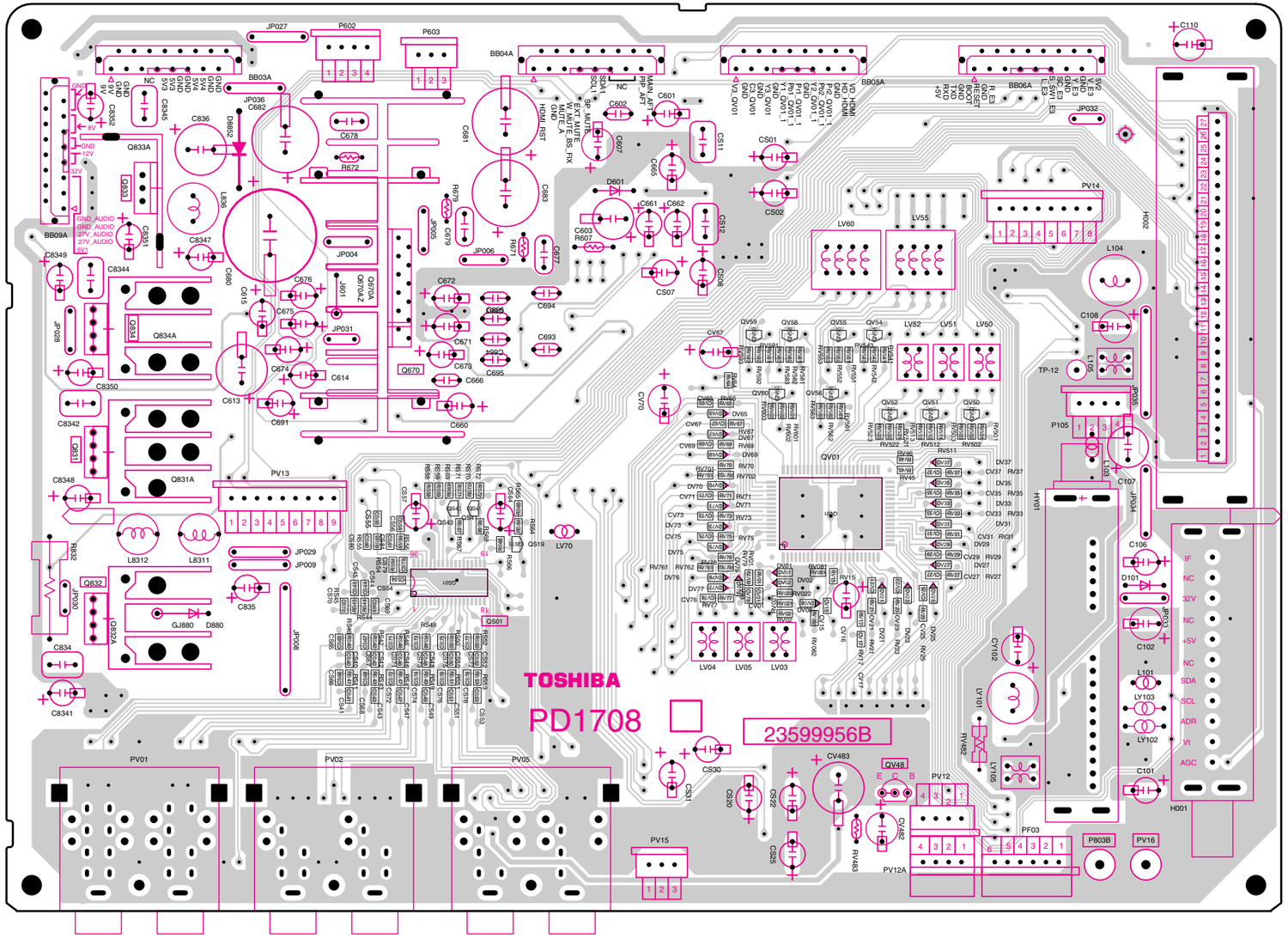
AV TERMINAL BOARD PD1708A (U005)

BOTTOM (FOIL) SIDE



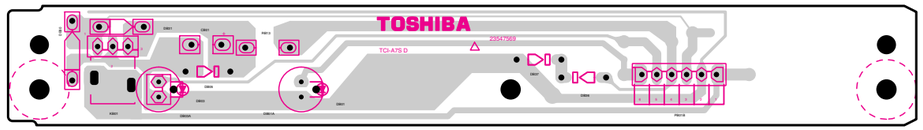
AV TERMINAL BOARD PD1708A (U005)

TOP (COMPONENT) SIDE



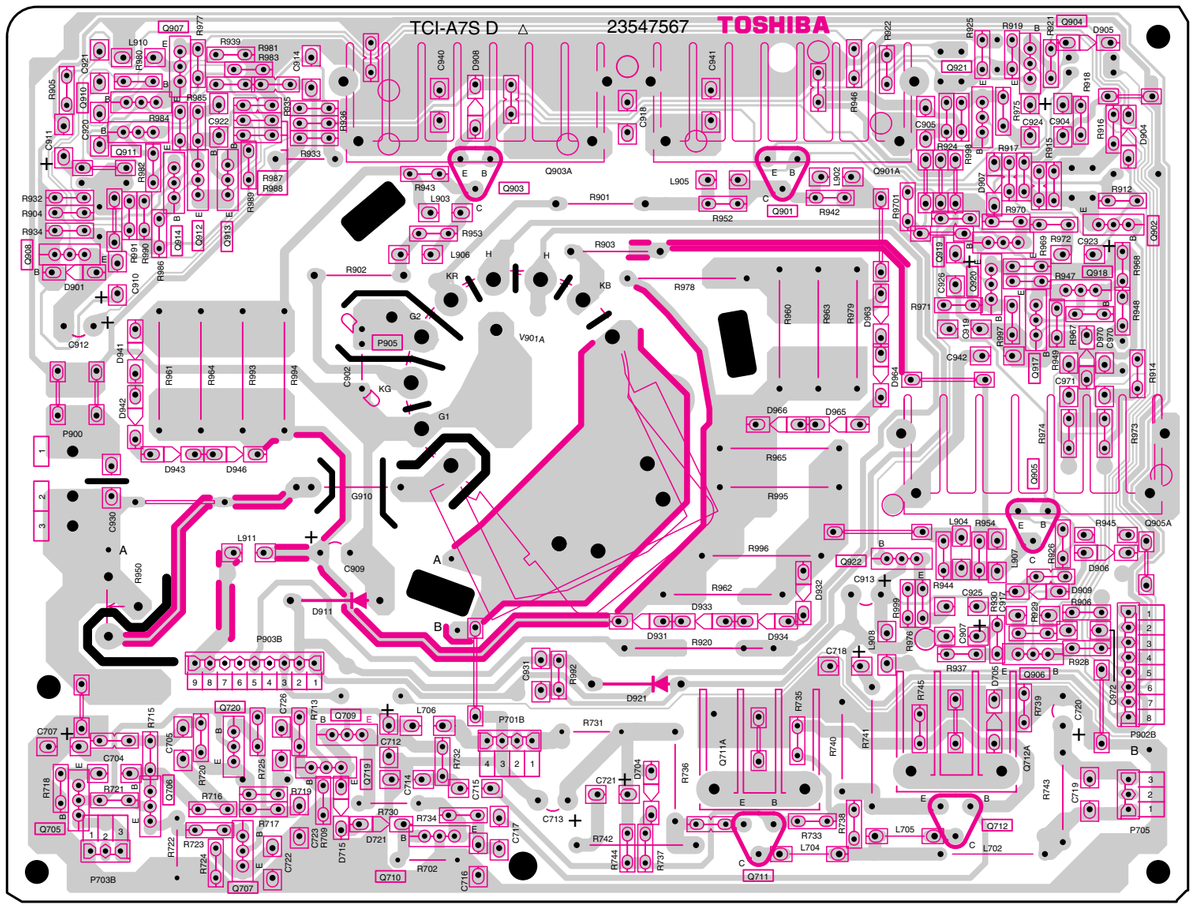
LED BOARD PD1709-2 (UA02)

BOTTOM (FOIL) SIDE



CRT-D/SVM BOARD PD1707A (U004)

BOTTOM (FOIL) SIDE


TCI-A7S D
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23547567
TOSHIBA
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R939
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D908
C941
C918
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R822
R825
R919
Q904
D905
Q921
C905
C924
C904
R924
R926
R917
R915
R916
D904
C921
Q910
C920
C911
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R985
R984
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R745
D705
Q906
R928
R939
C720
C712
L706
P701B
R731
C721
D704
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Q711A
R740
R741
Q712A
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R713
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A
G2
P905
KG
G1
V901A
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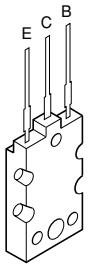
L906
R902
R903

TERMINAL VIEW OF TRANSISTORS

① 2SD2253
(old)
2SC5243



② 2SC3852
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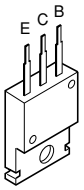

③ 2SC752GTM
2SC2482
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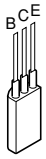

④ 2SC752
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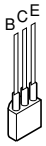
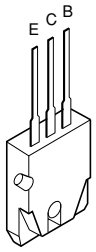
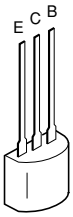
2SC1740S
2SC2120
2SA9335



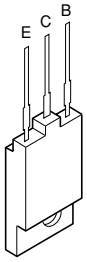
⑤ 2SA1788



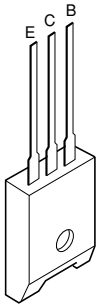
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SC5570
2SD2553



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 34HF84

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

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NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
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   1RF = Fuse resistor of 1 watt
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6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

AV 1/52
BEP — (1/3) [SHEET-1/3] 2/52
(2/3) [SHEET-2/3] 3/52
(3/3) [SHEET-3/3] 4/52
MICON — (1/8) [SHEET-1/8] 5/52
(2/8) [SHEET-2/8] 6/52
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(5/8) [SHEET-5/8] 9/52
(6/8) [SHEET-6/8] 10/52
(7/8) [SHEET-7/8] 11/52
(8/8) [SHEET-8/8] 12/52
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(2/3) [SHEET-2/3] 14/52
(3/3) [SHEET-3/3] 15/52
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TC90A92A-1 ..... 19/52
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GC-REG 21/52
TC90A92A-3 ..... 22/52
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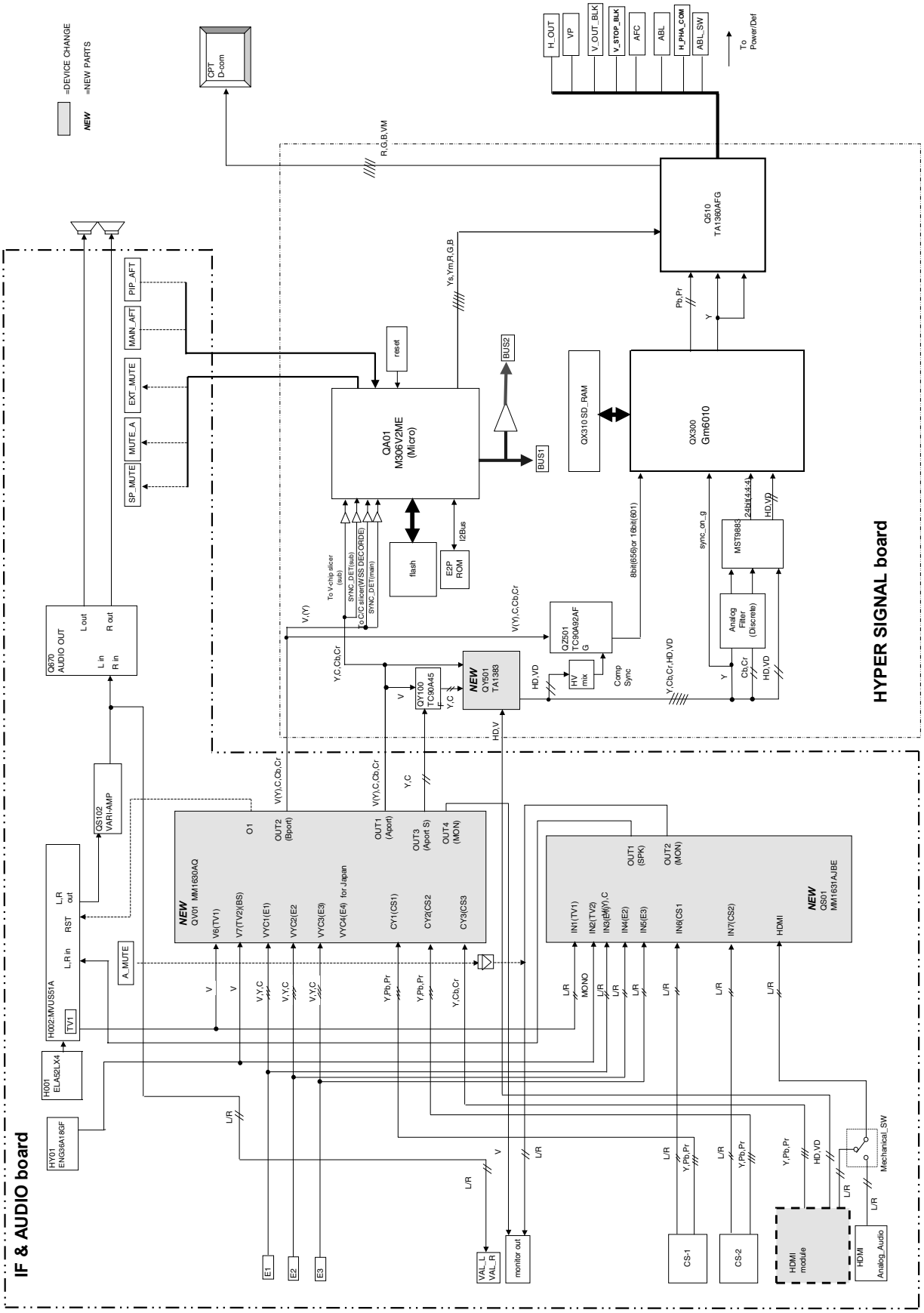
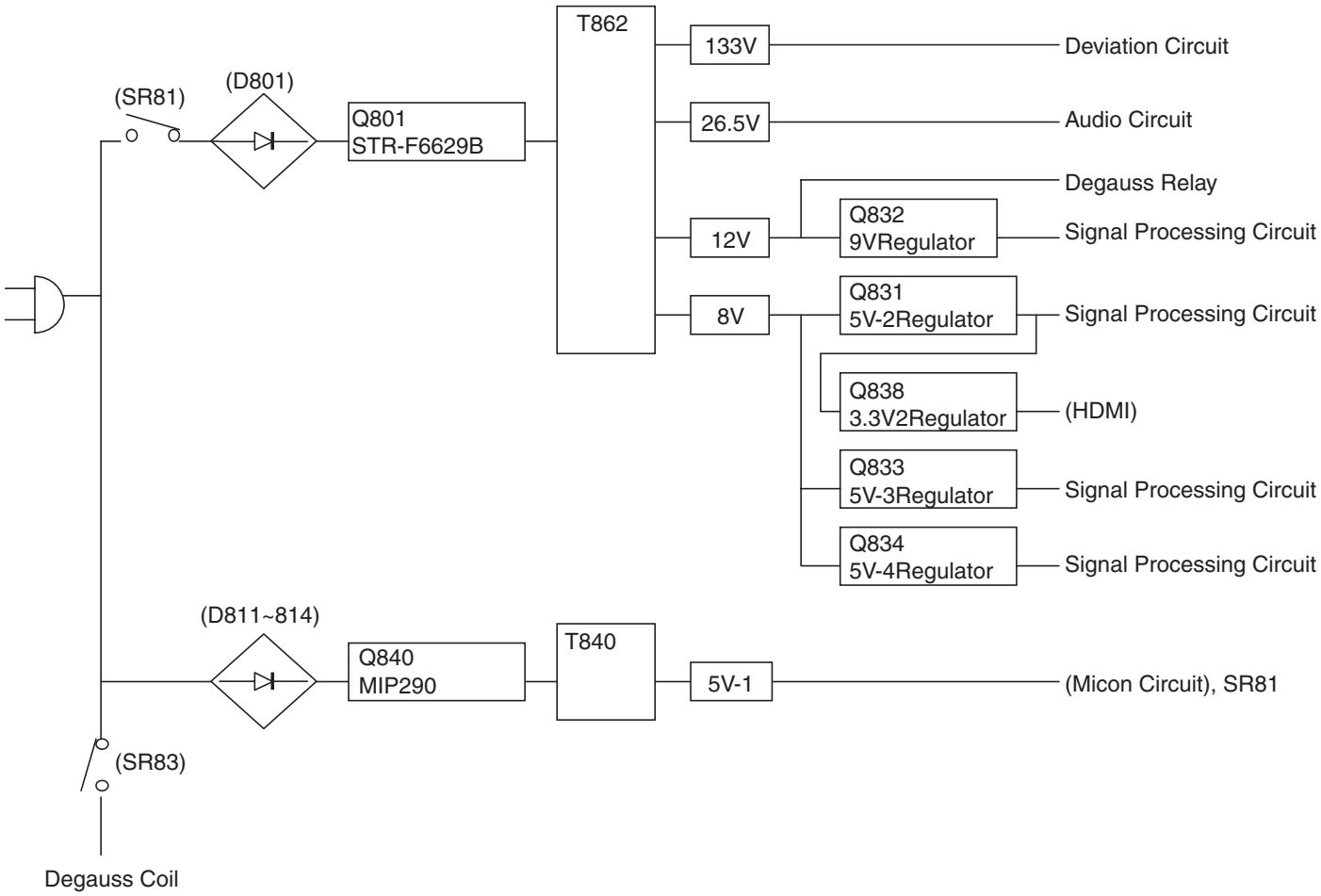
(HORIZONTAL) [SHEET-3/6] 46/52
(PROTECTOR) [SHEET-4/6] 47/52
(MAIN POWER) [SHEET-5/6] 48/52
(SUB POWER) [SHEET-6/6] 49/52
CRT-D 50/52
CONTROL 51/52
LED 52/52

CIRCUIT BLOCK DIAGRAM (MAIN)



CIRCUIT BLOCK DIAGRAM (POWER SUPPLY)



Specifications

• Design and specifications are subject to change without notice.

Television System
NTSC standard

Channel Coverage
VHF: 2 through 13
UHF: 14 through 69
Cable TV: Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 125)

Power Source
120 V AC, 60 Hz

Power Consumption
144 W (average)

Audio Power
10 W + 10 W

Speaker Type
Two 6 × 12 cm

Video/Audio Terminals
S-VIDEO INPUT
Y : 1 V(p-p), 75 ohms, negative sync.
C : 0.286 V(p-p) (burst signal), 75 ohms
VIDEO/AUDIO INPUT
VIDEO: 1 V(p-p), 75 ohms, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 22 k ohms or more)
ColorStream® (component video) INPUT
Y : 1V(p-p), 75 ohms
PR: 0.7 V(p-p), 75 ohms
PB: 0.7 V(p-p), 75 ohms
AUDIO: 150 mV(rms), 22 k ohms or more
VIDEO/AUDIO OUTPUT
VIDEO: 1 V(p-p), 75 ohms, negative sync.
AUDIO: 150 mV(rms) (30% modulation equivalent, 2.2 k ohms or less)
VARIABLE AUDIO OUTPUT
0–300 mV(rms) (30% modulation equivalent, 2.2 k ohms or less)

Video/Audio Terminals (cont.)
HDMI INPUT:
HDMI 1.1 (type A) compliant
HDCP 1.1 compliant
E-EDID* 1.3 compliant
Supports DVI-D uncompressed, high-speed, digital single-link input
Suggested scan rates: 1080i, 480p, 480i, 720p
HDMI Audio: 2-channel PCM; 32/44.1/48 kHz sampling frequency; 16/20/24 bits per sample

Dimensions
Width 33-5/8 inches (854 mm)
Height 24-3/8 inches (619 mm)
Depth 23-3/4 inches (603 mm)

Mass
156 lbs (70.7 kg)

Supplied Accessories
Remote Control with 2 size “AA” alkaline batteries

Optional TV Stand
ST34W64

– END –

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 34HF84

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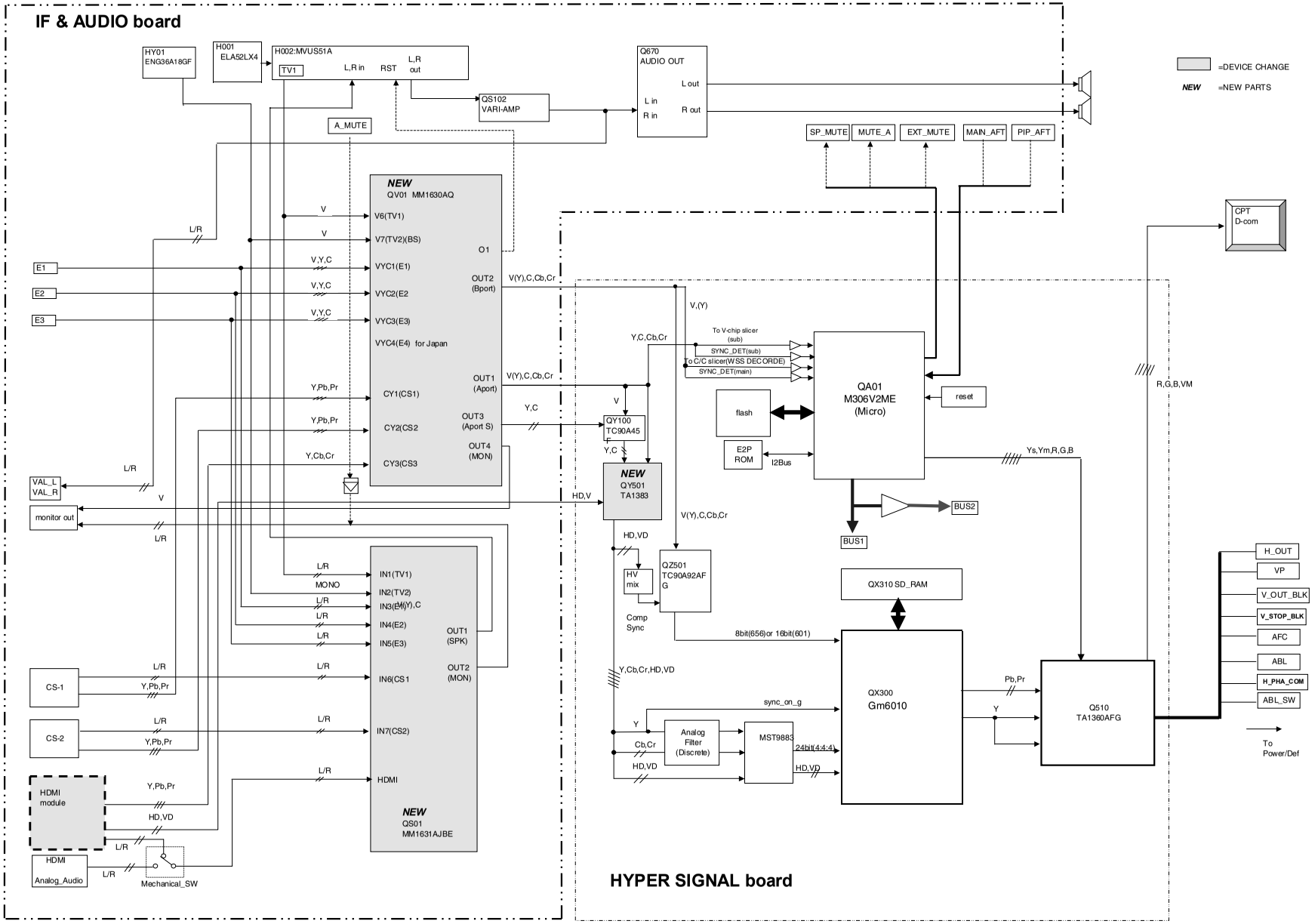
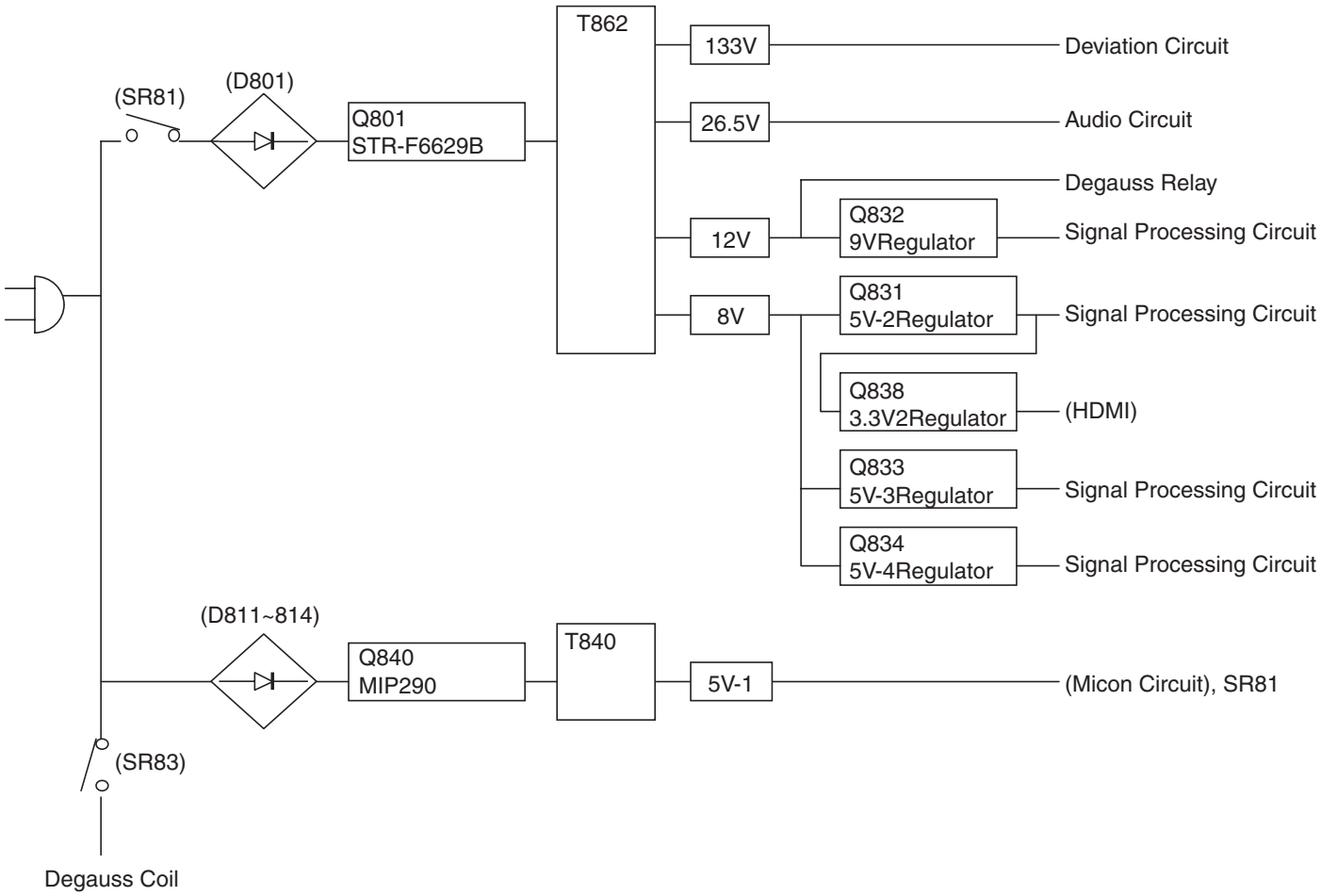
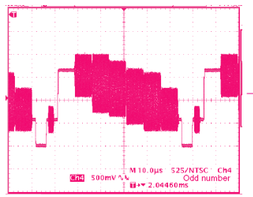


CIRCUIT BLOCK DIAGRAM (POWER SUPPLY)





9V
RV006
10
QV005
NOT MOUNT
Y1_QV01_1
035:3D
GJ005
0
1608
Y1_QV01_2
013:2E
RV005
NOT MOUNT
GND

9V
RV008
100
QV004
2SC4081
GJ004
NOT MOUNT
1608
Y1M_QV01_2
009:2B:011:2B
RV007
2.2k
GND

9V
Y2_QV01_2
013:4C
RV010
10
1005
QV001
NOT MOUNT
GJ001
0
1608
Y2_QV01_3
031:6E
RV009
NOT MOUNT
1005
GND

9V
RV012
100
QV002
2SC4081
GJ002
NOT MOUNT
1608
Y2M_QV01_3
009:2E:011:1D
RV011
2.2k
GND

9V
Pb1_QV01_1
035:3D
RV004
10
QV006
NOT MOUNT
GJ006
0
1608
Pb1_QV01_2
013:2E
RV003
NOT MOUNT
GND

9V
Pr1_QV01_1
035:3D
RV002
10
QV007
NOT MOUNT
GJ007
0
1608
Pr1_QV01_2
013:2D
RV001
NOT MOUNT
GND

34HF84
AV

SH. NO.
1

Q510
TA1360AFG

[U1360]
1/2

1	Ys2 (ANALOG_OSD)	Ys1 (ANALOG_OSD)	80
2	Ys3 (ANALOG_RGB)	YM/P-MUTE/ BLK	79
3	NC	ABCL_IN	78
4	R_S/H	VSM_OUT	77
5	NC	NC	76
6	G_S/H	Y/C_Vcc	75
7	B_S/H	APL_FILTER	74
8	IK_IN	NC	73
9	NC	NC	72
10	RGB_GND	DARK_AREA_ DET_FILTER	71
11	NC	BPH_FILTER	70
12 2.5	R_OUT	NC	69
13 2.5	G_OUT	Y1_IN	68
14 2.5	B_OUT	Cb1/Pb1_IN	67
15	NC	Cr1/Pr1_IN	66
16	RGB_Vcc	Y/C_GND	65
17	NC	LIGHT_AREA_ DET_FILTER	64
18	ANALOG_OSD_R_IN	Y2_IN 5.0	63
19	ANALOG_OSD_G_IN	NC	62
20	NC	Cb2/Pb2_IN 5.0	61

R4715 100
YS_OSD 006:4A
BLK_UP 014:8A
Q340 2SC2412K
R342 100
R525 7.5K
C5140 NOT MOUNT
D505 MA8270L [ZD]
R515 1/8W 10K
CX944 10V B2.2uF
D341 MA111
D312 MA111
D540 [ZD] MAZ81000H
035:7E BLK_V_DEF
VSM_OUT 004:1E
R225 100
R2104 3.3K
D502 MA111
YM_OSD 006:4A
ABL
035:7D
R514 10K
R245 1K
R513 100K
C206 16V 22uF
C520 16V 0.33uF [ZD]
C515 NOT MOUNT
D512 NOT MOUNT
D513 NOT MOUNT
L501 TEM2134AD
C563 10V 1uF
C205 16VB2.2uF
C564 16V B2.2uF
C5030 16V 100uF
C544 16V 0.1uF
R569 220k
C543 16V 0.1uF
C5020 50V B0.01uF
C545 16V 0.1uF
C512 50VB0.01uF
CC26 NOT MOUNT
C565 10V 1uF
CC25 NOT MOUNT
C533 16V 0.1uF
C532 16V 0.1uF

C531 16V 0.1uF
C539 NOT MOUNT
C537 16V 0.1uF
C538 NOT MOUNT
C536 16V 0.1uF
C535 NOT MOUNT
C530 NOT MOUNT
GJ110 0
IK_IN
004:1F
R_OUT
004:2B
G_OUT
004:2C
B_OUT
004:2D
C513 50V B0.01uF
C5090 16V 100uF
L503 TEM2134AD
R_OSD
008:4E
G_OSD
008:3C
CR15 16V 0.1uF
CR16 16V 0.1uF
9V_RGB
003:1B:003:1C

① M4.00µs A Ch4 ƒ -88.0mV, Ch4 200mV, ⊞▾ 2.05900ms

② M4.00µs A Ch4 ƒ 194mV, Ch4 100mV, ⊞▾ 2.04124ms

③ M4.00µs A Ch4 ƒ 1.22 V, Ch4 1.00 V, ⊞▾ 2.02596ms

④ M4.00µs A Ch4 ƒ 1.22 V, Ch4 1.00 V, ⊞▾ 2.02596ms

⑤ M4.00µs A Ch4 ƒ 1.46 V, Ch4 1.00 V, ⊞▾ 2.02196ms

[TP] TP_B
[TP] TP_Y
[TP] TP_G
Y_SCAL_2
GND
CB_SCAL
GND
[TP] TP_B-B
[TP] TP_Y-B
[TP] TP_G-B
G-HYPER(#1)
014:8D
G-HYPER(#2)
G-HYPER(#3)
014:8C
G-HYPER(#4)

34HF84
BEP (1/3)
SHEET-1/3

SH. NO. 2

Q510
TA1360

[U1360]
2/2

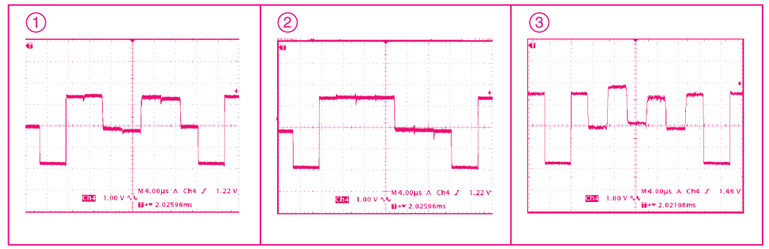
ANALOG_OSD_B_IN
NC
DAC2 (ACB_PULSE)
ANALOG_R_IN
ANALOG_G_IN
ANALOG_B_IN
I2L_GND
SDA
NC
SCL
I2L_VDD
NC
NC
DAC1 (SYNC_OUT)
VP_OUT
NC
H-OUT
DEF/DAC_GND
FBP_IN
H_CURVE_CORRECTION

Cr2/Pr2_IN
NC
COLOUR_LIMITER
VSM_FILTER
NC
H-FREQ_SW1
NC
SYNC_IN
VD_IN
NC
HD_IN
SCP_IN
NC
CP_OUT
NC
DEF/DAC_Vcc
AFC_FILTER
NC
HVCO
H-FREQ_SW2

008:3B B_OSD
CR17 16V0.1uF
002:1E:003:1C 9V_RGB
R531 10K
006:1D:012:6D:013:6A:032:2D:035:3B:035:7E SDA1
R5020 100
[ZD] D507 NOT MOUNT
R5030 100
GND[ZD]
SCL1
006:1D:012:6D:013:6C:032:2D:035:3B:035:7E D508 NOT MOUNT
GND
C548 16V 100uF
C547 16V0.01uF
[PD]
002:1E:003:1B 9V_RGB
VP_Q510
R532 10k
D4703 MA2J111
R4414 0
R4412 100
008:5E:035:7E HDRIVE
035:7D
L4010 NOT MOUNT
C4602 50VB1200pF
[ZD]
AFC
035:7D
R4605 10k
D4605 MAZ81000M
D439 MAZ81000M
R4606 NOT MOUNT
R4411 0
D4604 1SS355
D4606 1SS355
C4603 0
R4407 0
C4010 NOT MOUNT
C4406 50V B0.01uF
R561 1/2W 180
R4409 4.7k
D520 MA8027-L
9V
R487 470K
R486 6.2K
035:7E CENT_C_EW
Q200 2SA1576A
R488 150K
R4820 10k
C482 50V B1200pF
R483 22k
C4427 10V1uF
R4472 22k
R4471 22k
C4460 16V0.22uF
C4461 50V 0.22uF
GR90 470K
BEND_DET
035:7E
GND_DEF
035:7D

CC27 NOT MOUNT
C534 16V0.1uF
C5080 10V B1uF
C4112 16V B0.01uF
[TP] TP_R
[dI] TP-R-B
CR_SCAL
G-HYPER(#5) 014:8C
G-HYPER(#6)
NOT MOUNT
R4406
C505 16V0.1uF
Y_SCAL_3
VD_UP
014:8E
G-HYPER(#7) 008:5E:014:8C
R555 100
C4420 NOT MOUNT
HD_UP
G-HYPER(#8) 008:5D:014:8C
R554 100
C4407 NOT MOUNT
D4401 MAZB1000M
[DZ]
GND
HOSC_VCC
035:7E
2520
L4401 10uH
R4401 4.7k
C4403 10V1uF
X4402 503.5kHZ
C4031 NOT MOUNT
[ZD] MA8027L
NOT MOUNT
GJ440 0
D4413
C558 50VB0.01uF
C4405 16V0.1uF
R4413 560
C4404 50VB0.01uF
C4402 50VB0.01uF
C4401 16V220uF
[CP]
R4403 470F
R4405 1k
GJ446 10K

34HF84
BEP (2/3)
SHEET-2/3
SH. NO.
3



9V
C2110 16V 0.1uF
GND
R2149 1/10W 1k
R2155 1/10W 1k
Q2104 2SA1037K
[TRP]
002:1C R_OUT
R2105 100
R2001 10k
C2102 50V CH10PF
R2150 1/10W 1k
R2156 1/10W 1k
Q2105 2SA1037K
002:1D G_OUT
R2106 100
R2202 10k
C2103 50V CH10pF
R2151 1/10W 1k
R2157 1/10W 1k
002:1D B_OUT
R2107 100
R2003 10k
C2104 50V CH10pF
Q2106 2SA1037K
C572 16V 0.1uF
R572 5.6k
R571 4.7k
GJ38 0
GJ39 0
[FL09B]
L510 NOT MOUNT
R2111 0
R2112 0
R2113 0
R2163 0
R2164 0
R2165 0
Q2107 2SA1037K
Q2108 2SA1037K
Q2109 2SA1037K
TP46R 1P [TP]
TP46B 1P [TP]
R360 22K
R361 22K
R362 22K
Q360 2SC2742Y
DQF_VIDEO
035:7E
R363 4.7k
P703A B3B-EH-F1A
[CN3]
TO CRT
VM
NC
GND_VM
P902A B8B-EH-F1A
[CN8]
TO CRT
Ik
GND_IK
B_Q510
GND_IK
G_Q510
GND_IK
R_Q510
9V
TPG2 1P [TP]
002:8B VSM_OUT
R2020 100
Q201 2SC2412K
R2062 100
R2022 NOT MOUNT
R2060 1k
R2061 NOT MOUNT
002:1C IK_IN
GJ111 NOT MOUNT
R558 NOT MOUNT
[ZD]
D530 NOT MOUNT
R559 NOT MOUNT
C555 NOT MOUNT

34HF84
BEP (3/3)
SHEET-3/3

SH. NO.
4

035:3B MAIN_AFT
035:3B PIP_AFT
034:7E KEY1
034:7E KEY2
009:4E CVIN2
009:4B CVIN1

3.3V
CA14 16V 0.1uF
RA09 10k
RA05 1K
RA100 1K
[U306V7FG] 1/3
5V1
RA128 NOT MOUNT
RA117 33k
3.3V
RA127 NOT MOUNT
RA116 33k

034:7E TM_LEVEL
H_START
RA134 100
035:7B SYNC_BSD
RA133 NOT MOUNT
035:3B ACP
RA137 NOT MOUNT
DA02 1SS355
034:7C
IR_IN 034:7E
RA88 33k
RA07 2.2k
034:4B BOOT
RA138 100
RA64 1K
RA139 0
006:7B:009:5D RESET_2
RA12 1K
RA13 0

1	VHOLD1	CVIN1	100
2	HLF1	VCCE	99
3	P94/DA1/SCL3/RxD2	TVSETB	98
4	P93/DA0/SDA3/TxD2	CVIN2	97
5	P92/TB2IN/DIGR0	HLF2	96
6	P91/TB1IN	VHOLD2	95
7	P90/TB0IN	P102/AN0	94
8	BYTE	P103/AN1	93
9	CNVSS	P104/AN2	92
10	P87/XCIN/DIGG0	P105/AN3/DIGB2	91
11	P86/XCOUT/DIGB0	P106/AN4/DIGG2	90
12	RESET	P107/AN5/DIGR2	89
13	XOUT	P00/D0	88
14	VSS	P01/D1	87
15	XIN	P02/D2	86
16	VCCI	P03/D3	85

RA24 1k
RA94 1k
RA93 1k
RA92 1k
RA91 1k
CNLEVEL 035:3B
RA126 NOT MOUNT
PROT_DET 035:7E
RA125 NOT MOUNT
D[0-3] 010:6D
[RMX4A]
D[0] D[1] D[2] D[3]
ZA07 47

[XCMA]
XA01 10.000MHz
2 (GND)
GND

CA28 0.3V 2uF
RA132 47k
RA101 68K
CA42 16V 0.1uF
RA89 NOT MOUNT
RA05 NOT MOUNT
RA131 NOT MOUNT
CA29 50VCH220p
RA141 NOT MOUNT
CA19 50V B1000pF
CA10 16V0.1uF
DA10 NOT MOUNT
CA11 16V 0.1uF
GND

QA01 M306V7FGFP

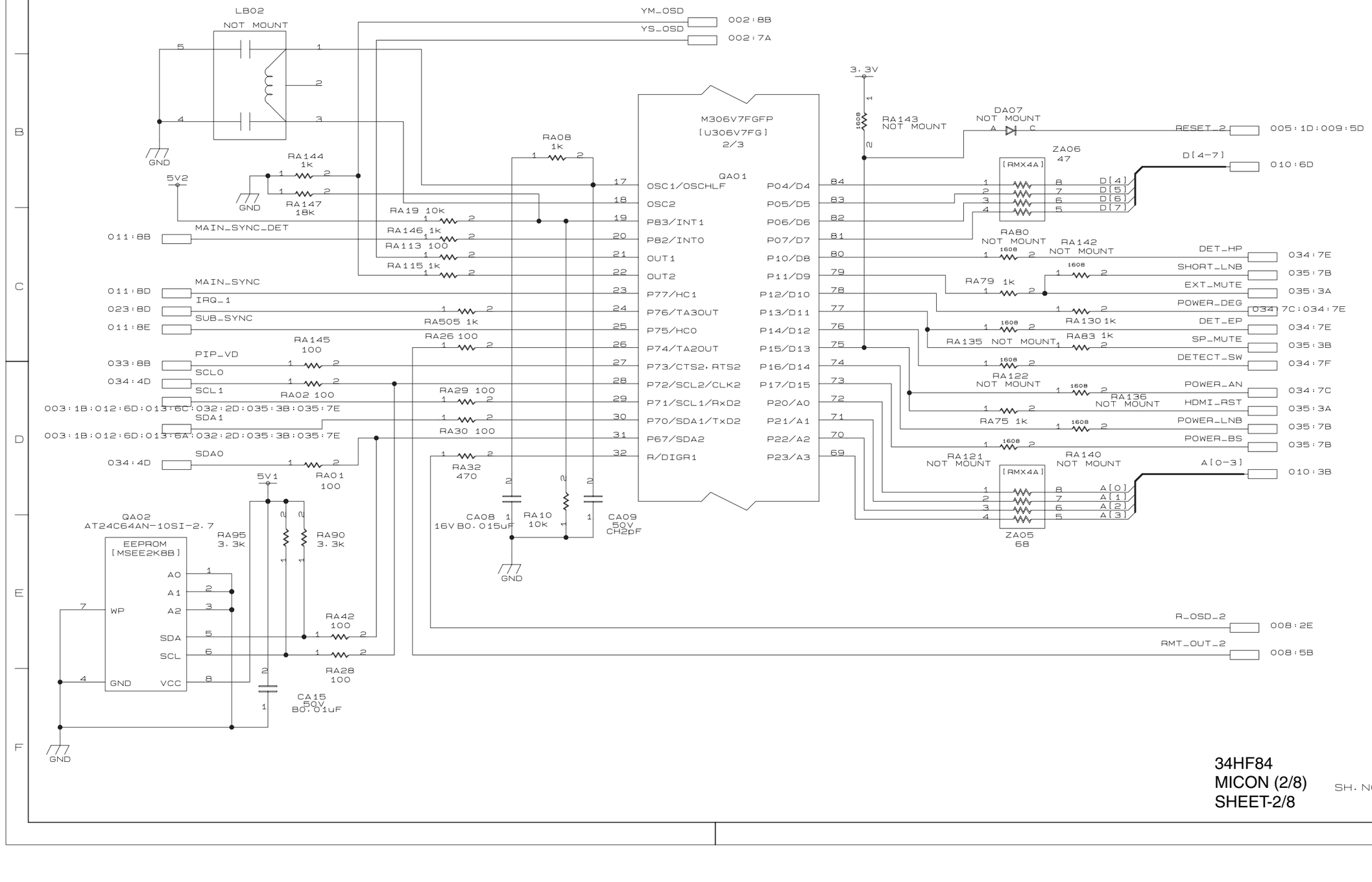
CA18 50VCH330p
CA13 16V 0.1uF
GND
DA13 NOT MOUNT
CA06 50V CH330p
CA04 CH220p
RA123 NOT MOUNT
CA03 B1000pF
RA124 NOT MOUNT
CA05 B2.2uF
CA40 50VB0.01u
CA41 50V B0.01u

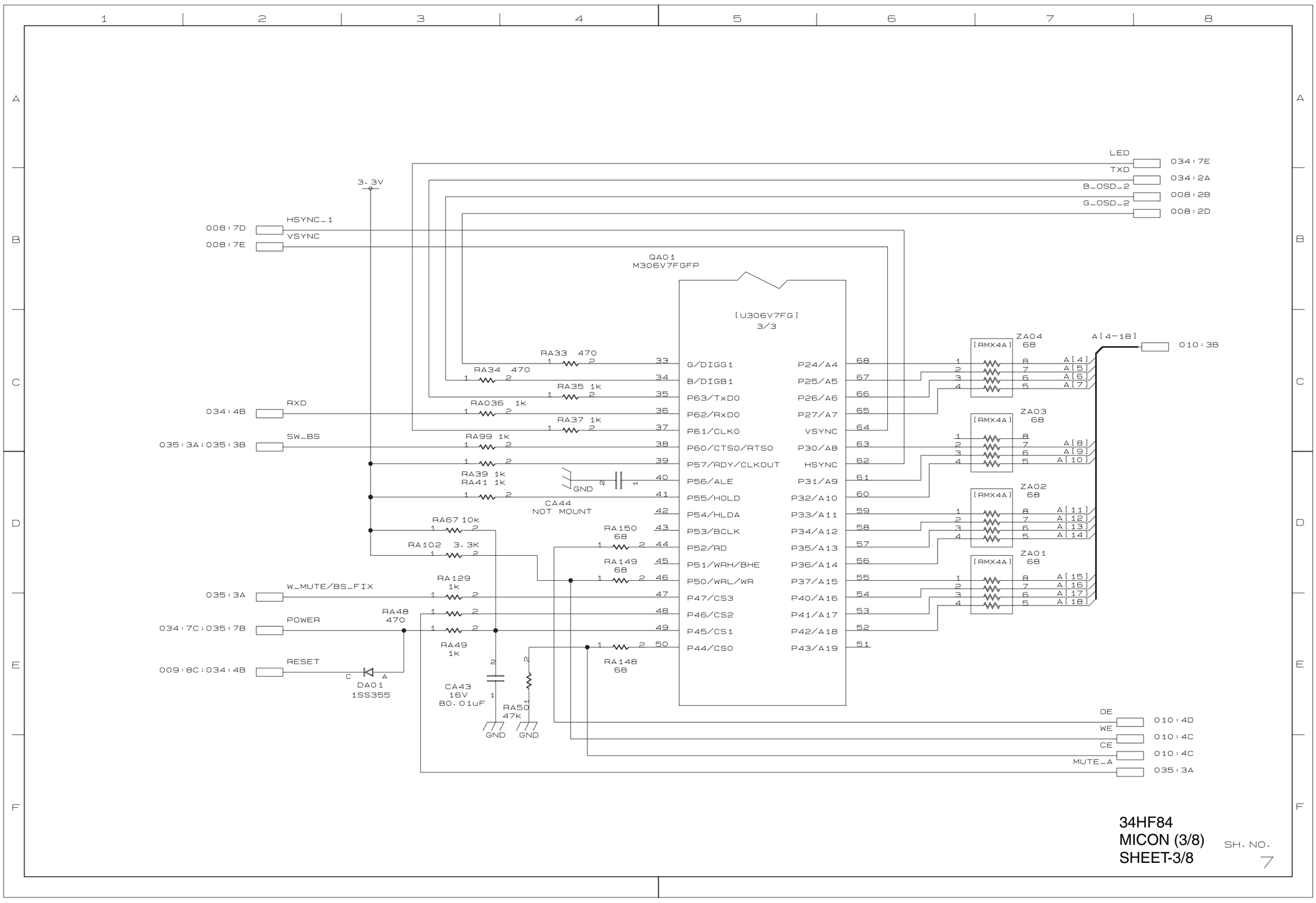
ABL_SW1 035:7E
ABL_SW2 035:7E

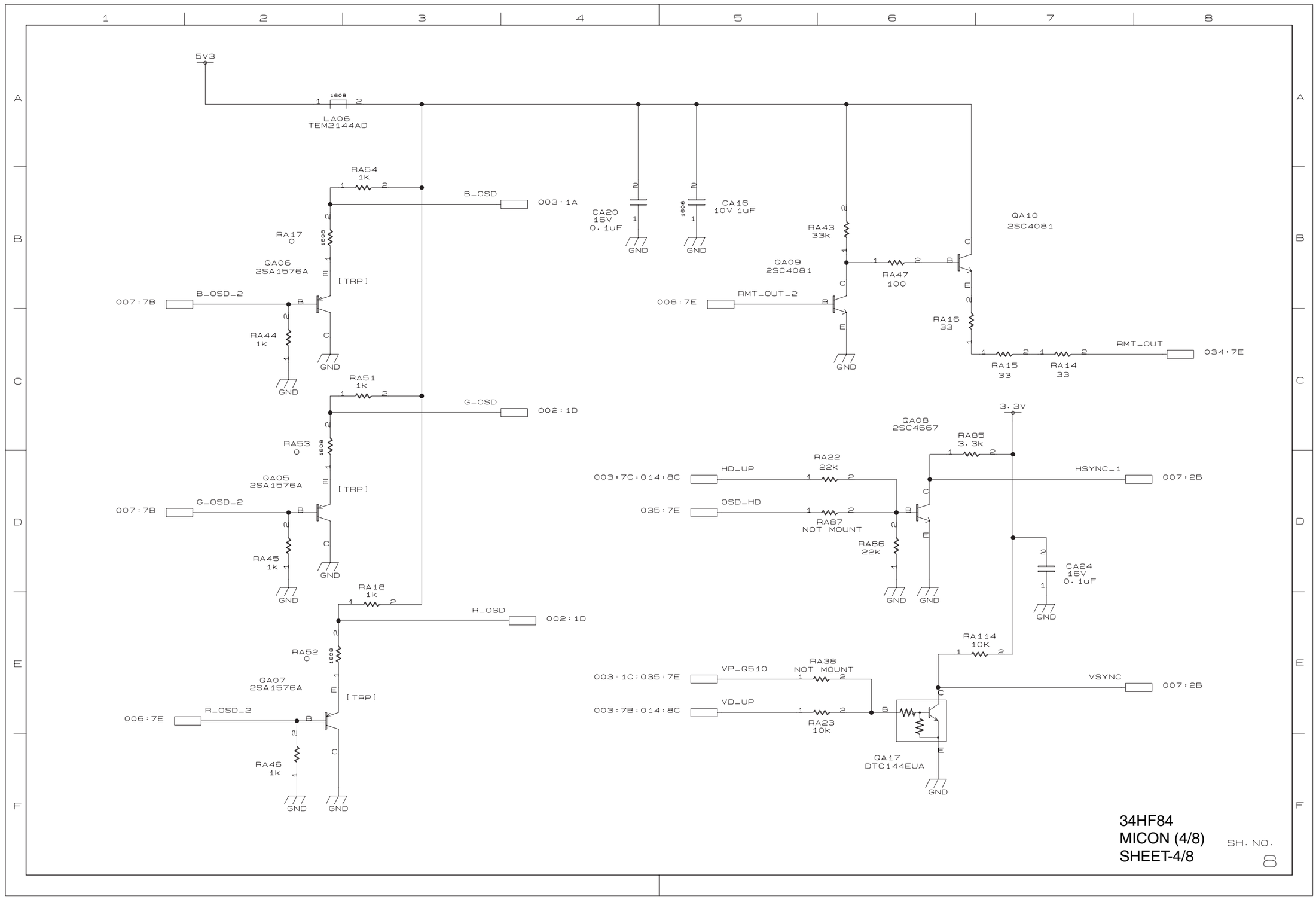
34HF84
BEP (3/3)
SHEET-3/3

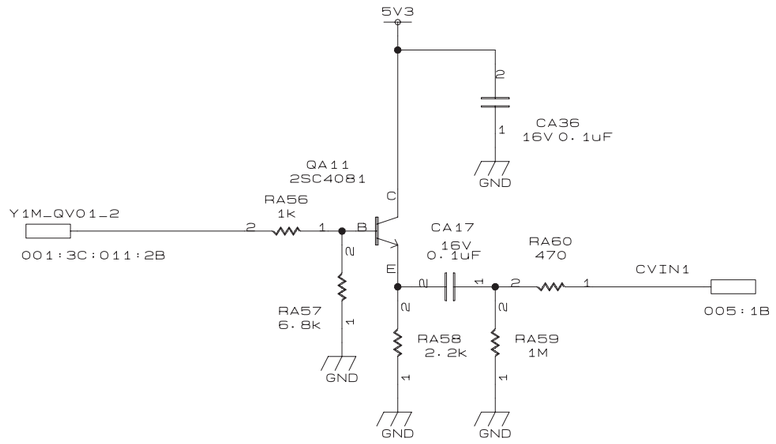
34HF84
MICON (1/8)
SHEET-1/8

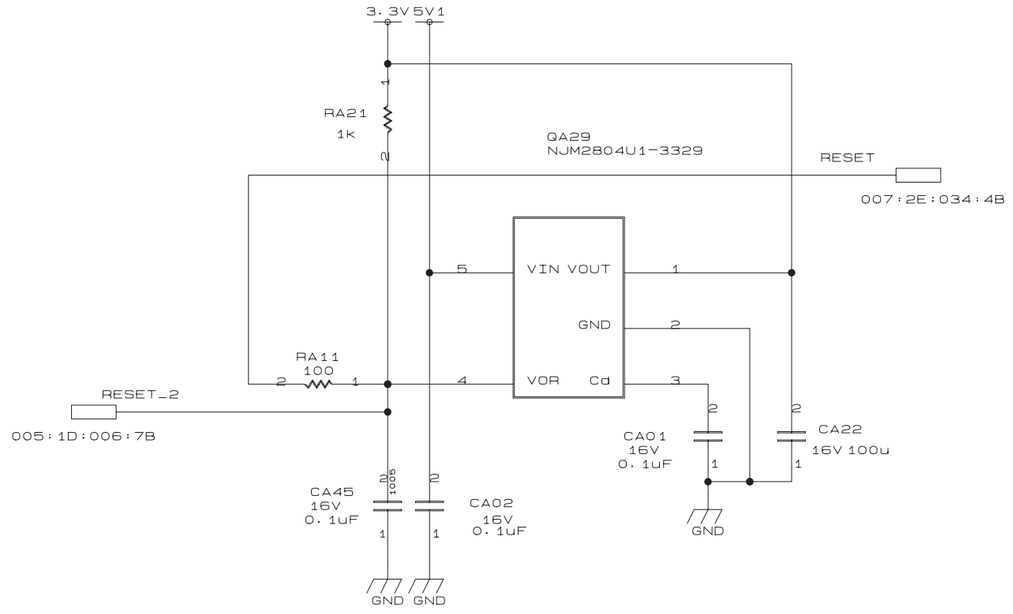
SH. NO.

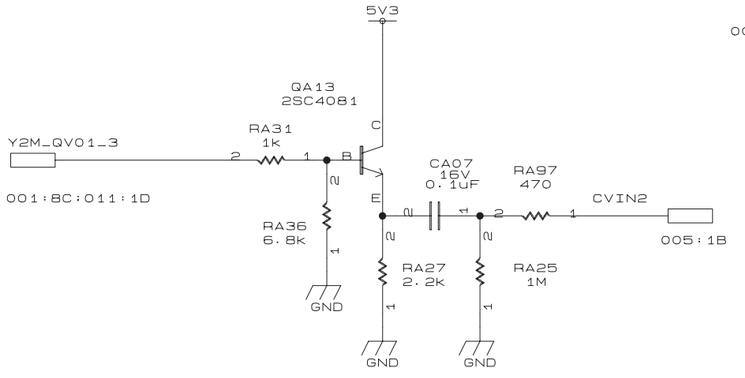

LB02
NOT MOUNT
YM_OSD
002:8B
YS_OSD
002:7A
3.3V
M306V7FGFP
[U306V7FG]
2/3
QA01
RA143
NOT MOUNT
DA07
NOT MOUNT
RESET_2
005:1D:009:5D
D[4-7]
010:6D
ZA06
47
[RMX4A]
RA08
1k
RA144
1k
RA147
18k
5V2
GND
RA19 10k
RA146 1k
RA113 100
RA115 1k
011:8B
MAIN_SYNC_DET
011:8D
MAIN_SYNC
023:8D
IRQ_1
011:8E
SUB_SYNC
RA505 1k
RA26 100
RA145
100
033:8B
PIP_VD
034:4D
SCL0
SCL1
RA02 100
003:1B:012:6D:013:6C:032:2D:035:3B:035:7E
SDA1
003:1B:012:6D:013:6A:032:2D:035:3B:035:7E
SDA0
034:4D
RA01
100
RA29 100
RA30 100
RA32
470
CA08 1
16V B0.015uF
RA10
10k
CA09
50V
CH2pF
GND
5V1
QA02
AT24C64AN-10SI-2.7
EEPROM
[MSEE2K8B]
RA95
3.3k
RA90
3.3k
RA42
100
RA28
100
CA15
50V
B0.01uF
GND
RA80
NOT MOUNT
RA142
NOT MOUNT
DET_HP
034:7E
SHORT_LNB
035:7B
EXT_MUTE
035:3A
POWER_DEG
034:7C:034:7E
RA79 1k
RA130 1k
DET_EP
034:7E
RA135 NOT MOUNT
RA83 1k
SP_MUTE
035:3B
DETECT_SW
034:7F
RA122
NOT MOUNT
POWER_AN
034:7C
RA136
NOT MOUNT
HDMI_RST
035:3A
RA75 1k
POWER_LNB
035:7B
POWER_BS
035:7B
RA121
NOT MOUNT
RA140
NOT MOUNT
A[0-3]
010:3B
ZA05
68
R_OSD_2
008:2E
RMT_OUT_2
008:5B
34HF84
MICON (2/8)
SHEET-2/8
SH. NO.
6


LED
034:7E
TXD
034:2A
B_OSD_2
008:2B
G_OSD_2
008:2D
3.3V
008:7D
HSYNC_1
008:7E
VSYNC
QA01
M306V7FGFP
[U306V7FG]
3/3
RA33 470
RA34 470
RA35 1k
RA036 1k
RA37 1k
RA99 1k
RA39 1k
RA41 1k
CA44
NOT MOUNT
GND
RA67 10k
RA102 3.3K
RA150
68
RA149
68
RA129
1k
RA48
470
RA49
1k
RA148
68
CA43
16V
B0.01uF
RA50
47k
034:4B
RXD
035:3A:035:3B
SW_BS
035:3A
W_MUTE/BS_FIX
034:7C:035:7B
POWER
009:8C:034:4B
RESET
DA01
1SS355
P63/TxD0
P62/RxD0
P61/CLK0
P60/CTS0/RTS0
P57/RDY/CLKOUT
P56/ALE
P55/HOLD
P54/HLDA
P53/BCLK
P52/RD
P51/WRH/BHE
P50/WRL/WR
P47/CS3
P46/CS2
P45/CS1
P44/CS0
G/DIGG1
B/DIGB1
P24/A4
P25/A5
P26/A6
P27/A7
VSYNC
HSYNC
P30/A8
P31/A9
P32/A10
P33/A11
P34/A12
P35/A13
P36/A14
P37/A15
P40/A16
P41/A17
P42/A18
P43/A19
ZA04
68
ZA03
68
ZA02
68
ZA01
68
[RMX4A]
A[4-18]
010:3B
A[4]
A[5]
A[6]
A[7]
A[8]
A[9]
A[10]
A[11]
A[12]
A[13]
A[14]
A[15]
A[16]
A[17]
A[18]
OE
WE
CE
MUTE_A
010:4D
010:4C
010:4C
035:3A
34HF84
MICON (3/8)
SHEET-3/8
SH. NO.
7


5V3
LA06
TEM2144AD
RA54
1K
B_OSD
003:1A
RA17
0
QA06
2SA1576A
[TRP]
007:7B
B_OSD_2
RA44
1K
GND
CA20
16V
0.1uF
CA16
10V 1uF
RA43
33k
QA09
2SC4081
006:7E
RMT_OUT_2
QA10
2SC4081
RA47
100
RA16
33
RA15
33
RA14
33
RMT_OUT
034:7E
RA51
1K
G_OSD
002:1D
RA53
0
QA05
2SA1576A
G_OSD_2
RA45
1K
RA18
1K
R_OSD
002:1D
RA52
0
QA07
2SA1576A
R_OSD_2
RA46
1K
3.3V
QA08
2SC4667
RA85
3.3k
HD_UP
003:7C:014:8C
RA22
22k
OSD_HD
035:7E
RA87
NOT MOUNT
RA86
22k
HSYNC_1
007:2B
CA24
16V
0.1uF
RA114
10K
VP_Q510
003:1C:035:7E
RA38
NOT MOUNT
VD_UP
003:7B:014:8C
RA23
10K
VSYNC
007:2B
QA17
DTC144EUA
34HF84
MICON (4/8)
SHEET-4/8
SH. NO.
8

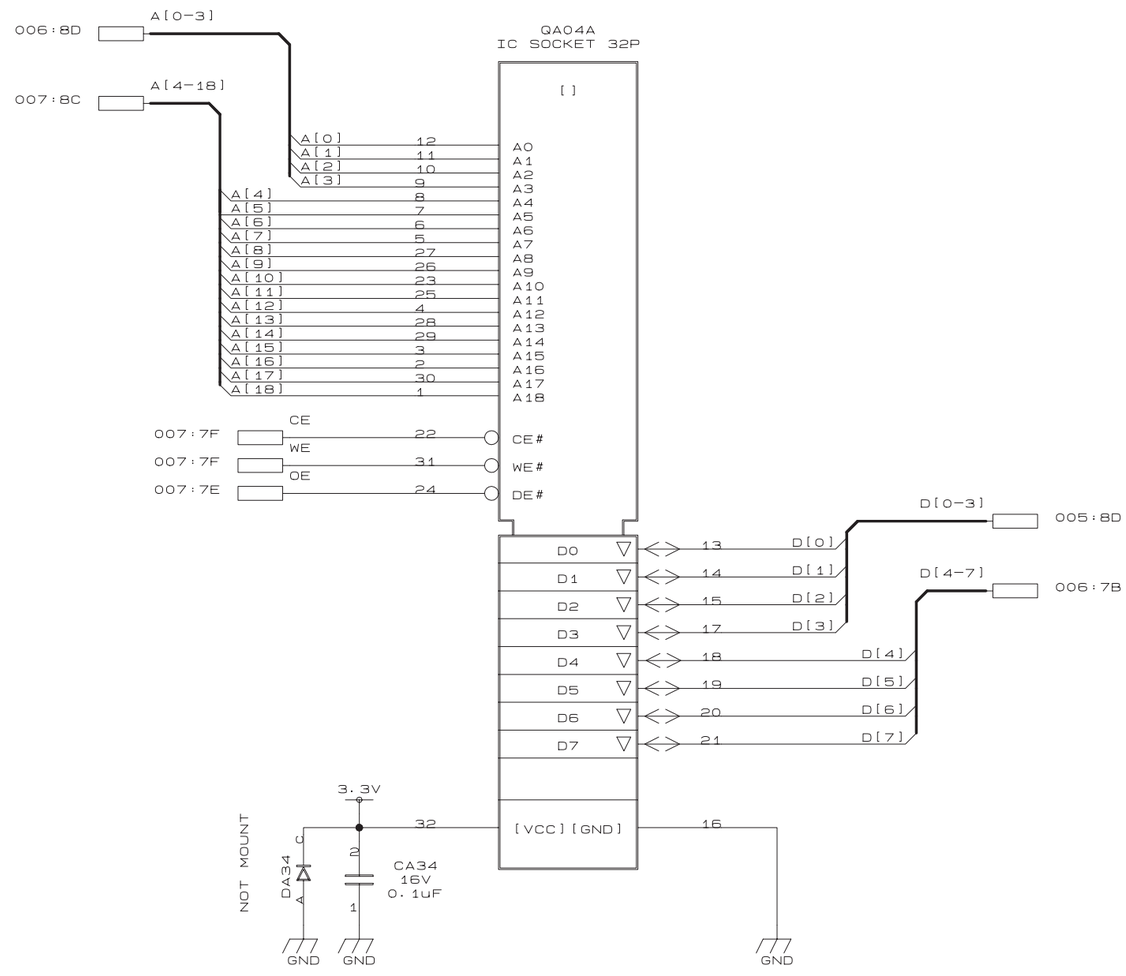






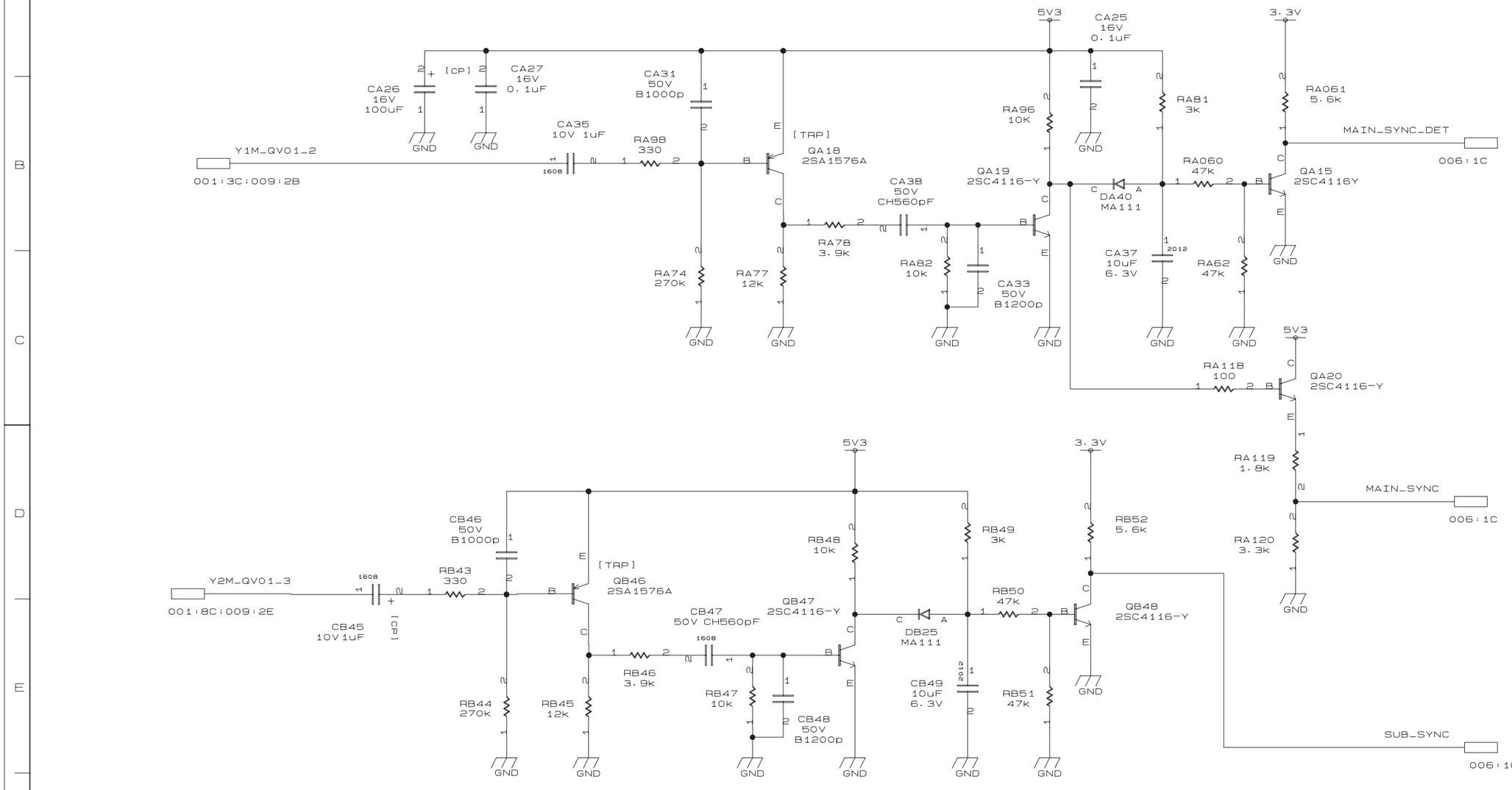
34HF84
MICON (5/8)
SHEET-5/8

SH. NO. 9



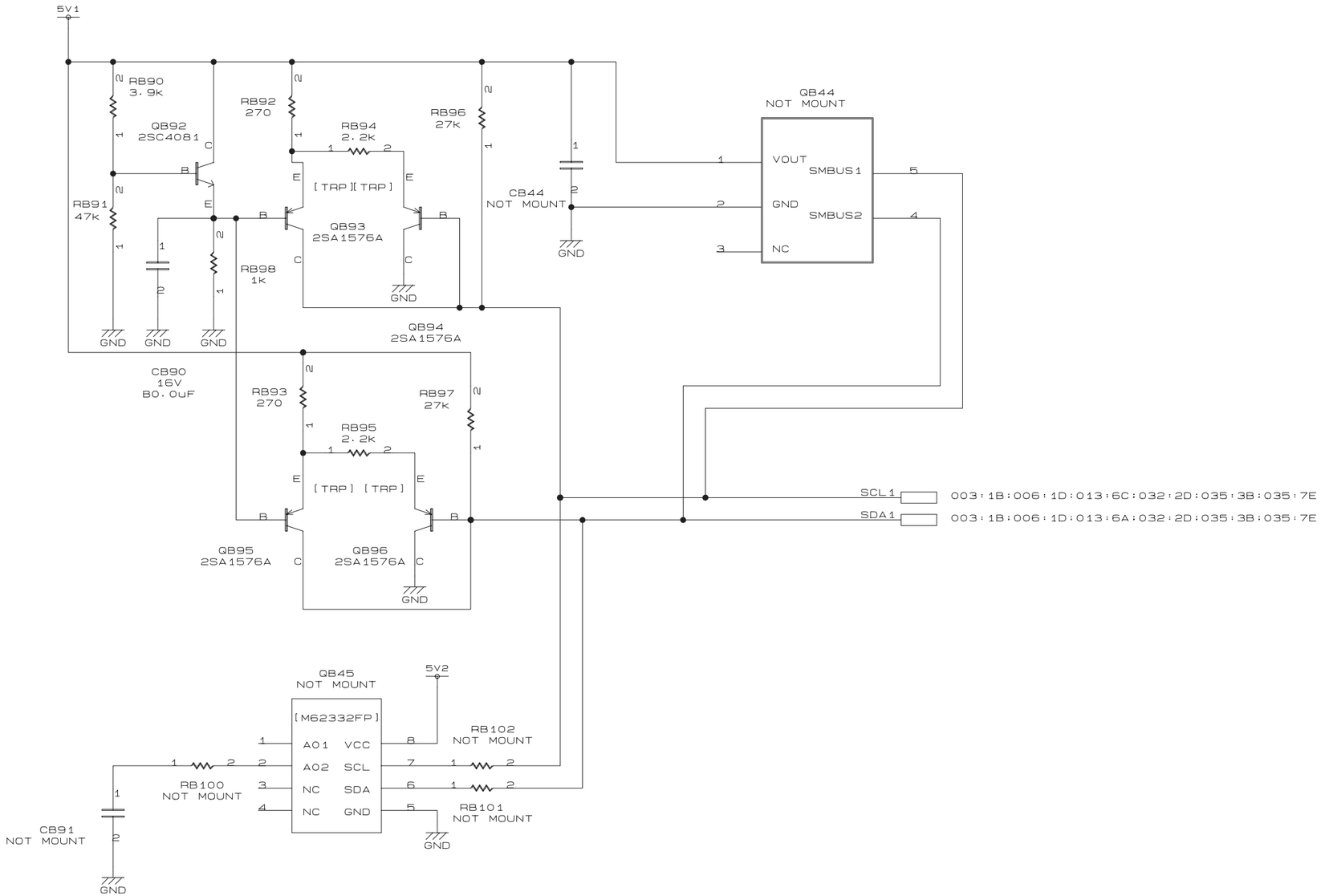
34HF84
MICON (6/8)
SHEET-6/8

SH. NO.
10



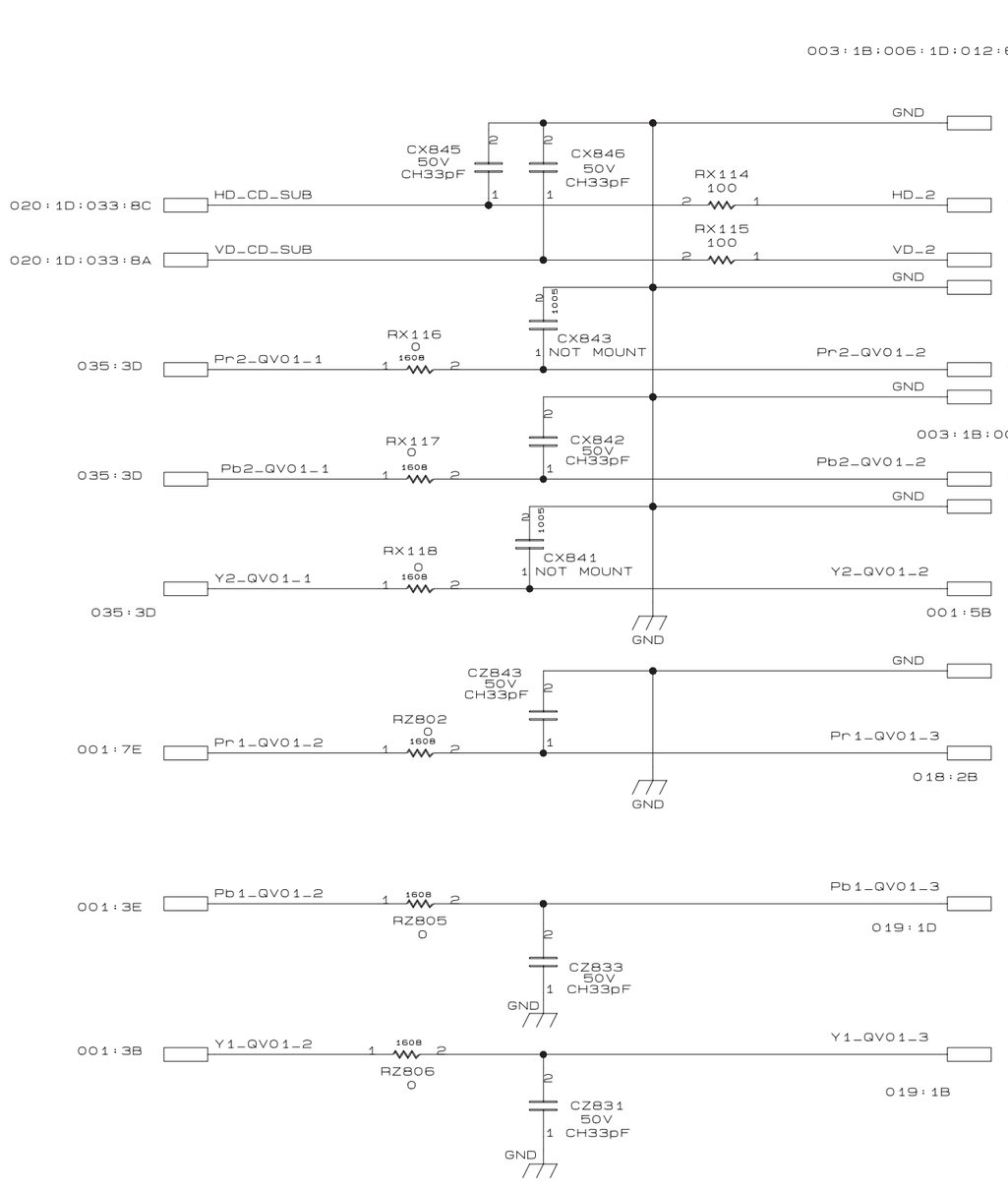
34HF84
MICON (7/8)
SHEET-7/8

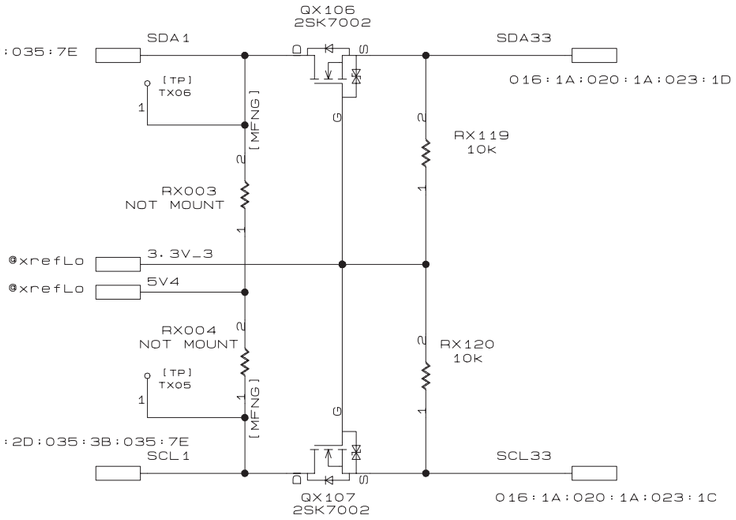
SH. NO.
11

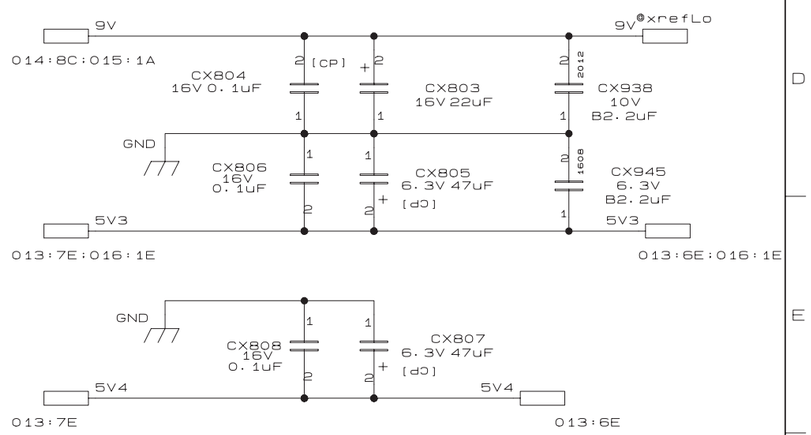


34HF84
MICON (8/8)
SHEET-8/8

SH. NO.
12

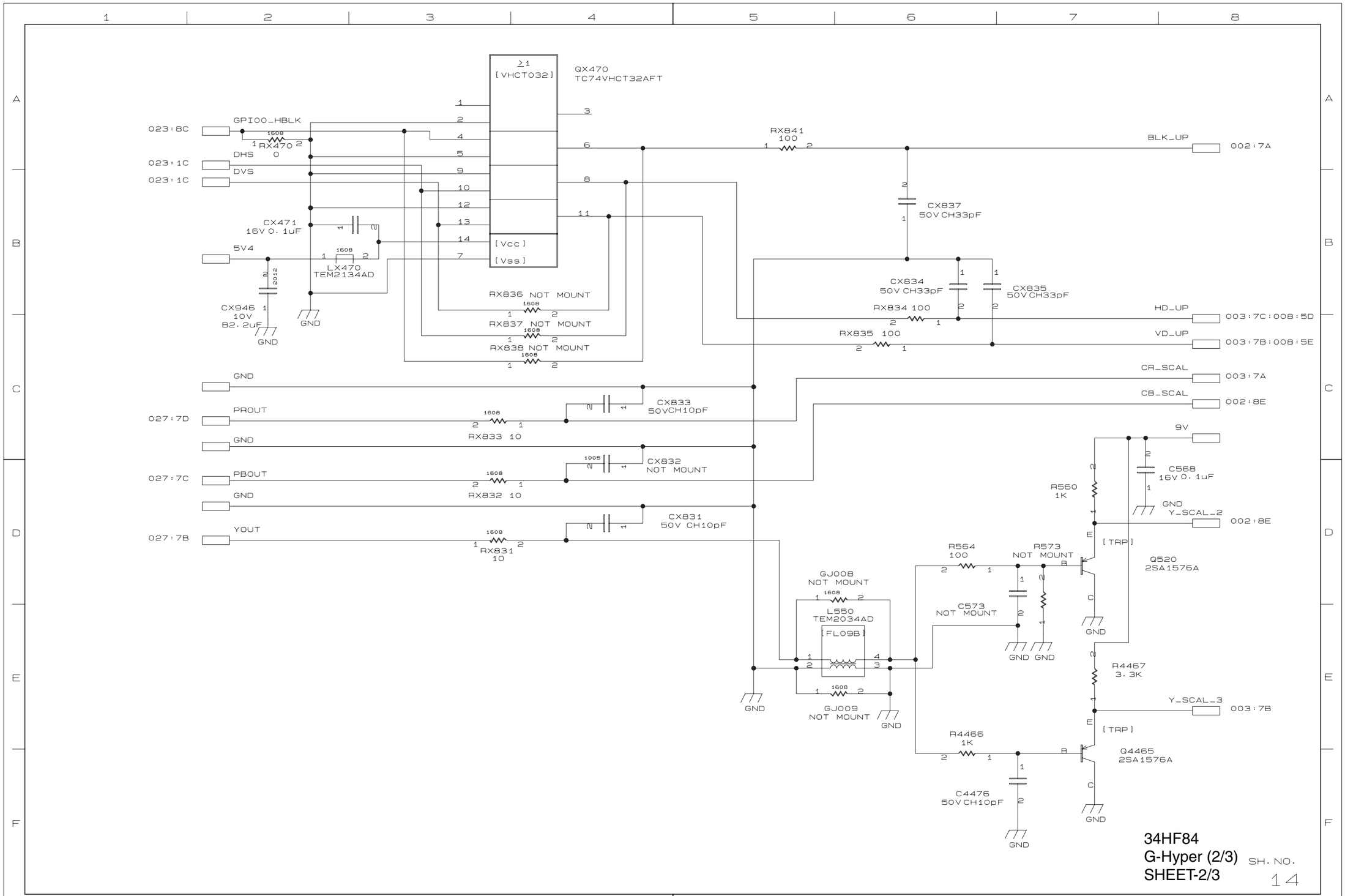


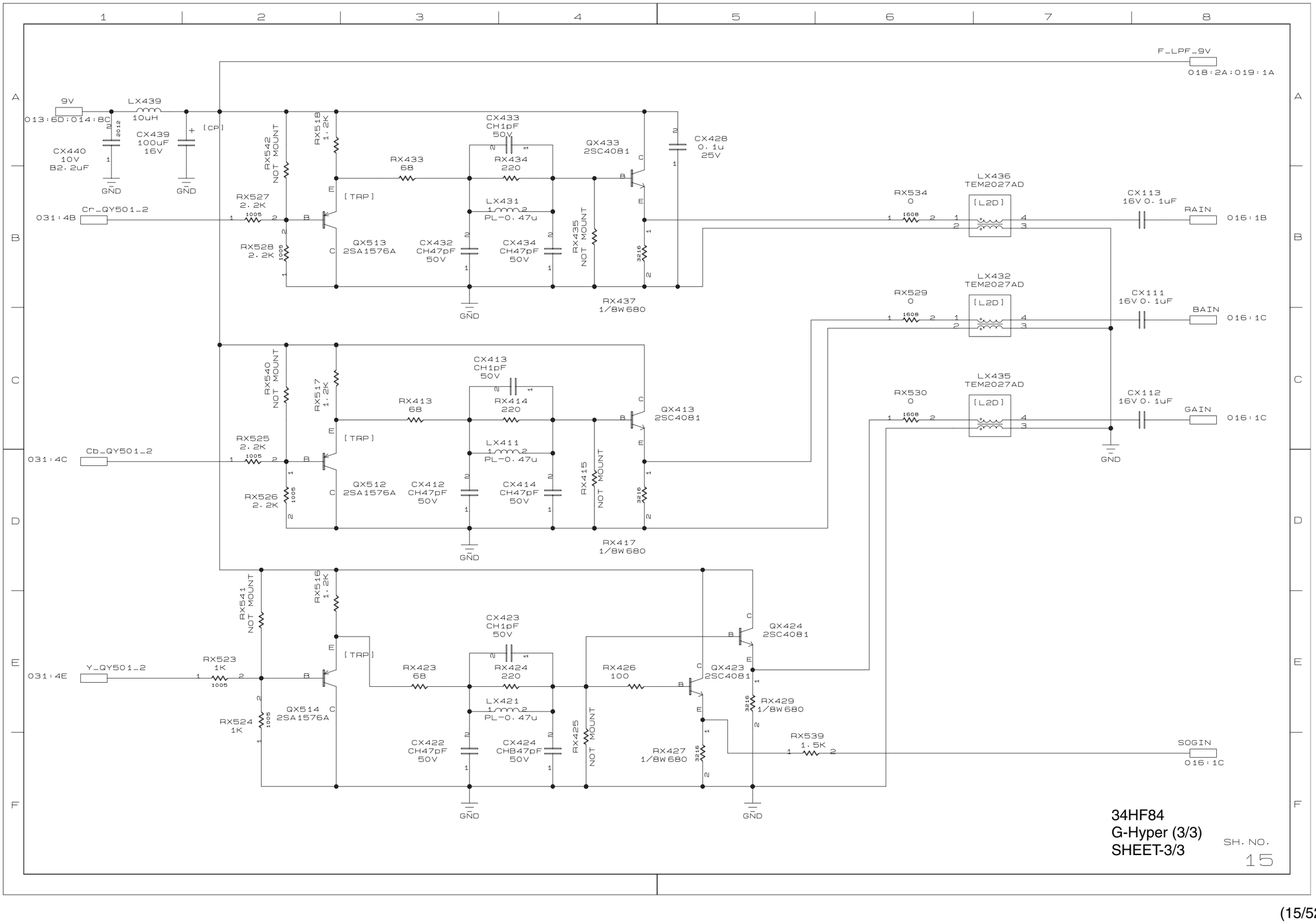


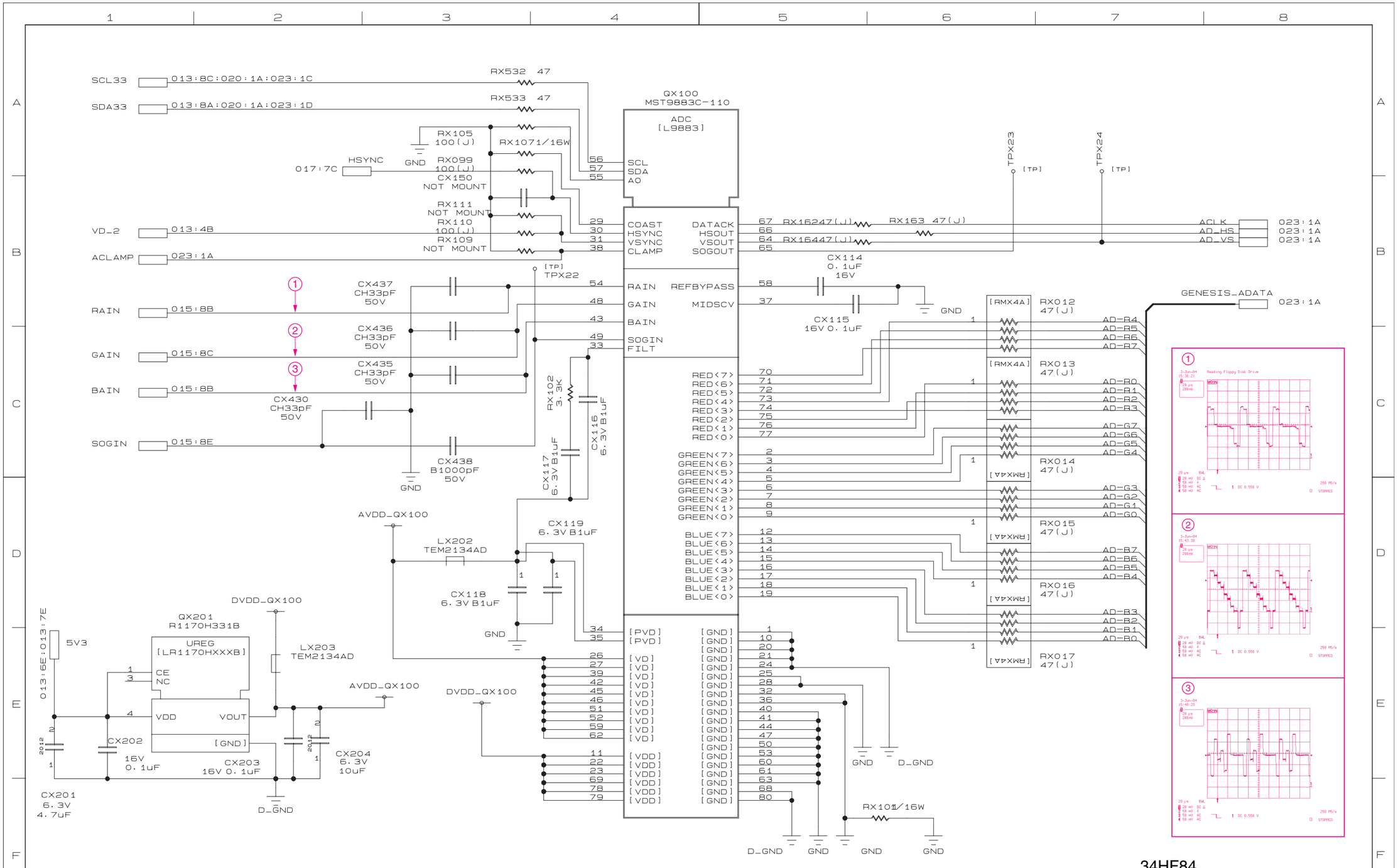


34HF84
G-Hyper (1/3)
SHEET-1/3

SH. NO. 13

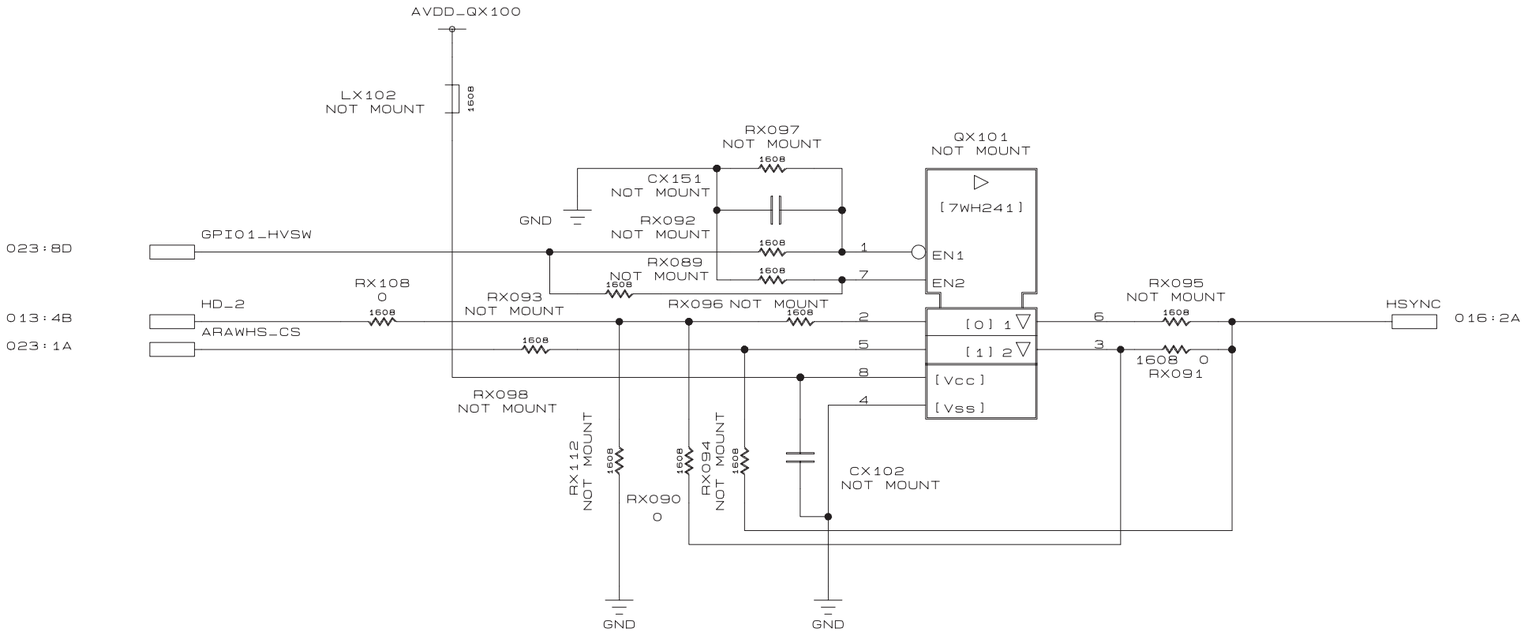

QX470
TC74VHCT32AFT
[VHCT032]
[Vcc]
[Vss]
GPI00_HBLK
RX470 0
DHS
DVS
CX471 16V 0.1uF
5V4
LX470 TEM2134AD
CX946 10V B2.2uF
GND
RX836 NOT MOUNT
RX837 NOT MOUNT
RX838 NOT MOUNT
RX841 100
BLK_UP
CX837 50V CH33pF
CX834 50V CH33pF
CX835 50V CH33pF
RX834 100
RX835 100
HD_UP
VD_UP
CR_SCAL
CB_SCAL
PROUT
CX833 50VCH10pF
RX833 10
PBOUT
CX832 NOT MOUNT
RX832 10
YOUT
CX831 50V CH10pF
RX831 10
9V
C568 16V 0.1uF
R560 1K
Y_SCAL_2
[TRP]
Q520 2SA1576A
R564 100
R573 NOT MOUNT
C573 NOT MOUNT
GJ008 NOT MOUNT
L550 TEM2034AD
[FL09B]
GJ009 NOT MOUNT
R4467 3.3K
Y_SCAL_3
R4466 1K
Q4465 2SA1576A
C4476 50V CH10pF
34HF84
G-Hyper (2/3)
SHEET-2/3
SH. NO.
14


F_LPF_9V
018:2A:019:1A
9V
013:6D:014:8C
LX439
10uH
CX439
100uF
16V
CX440
10V
B2.2uF
GND
[CP]
RX542
NOT MOUNT
RX518
1.2K
CX433
CH1pF
50V
RX433
68
RX434
220
QX433
2SC4081
CX428
0.1u
25V
[TRP]
LX431
PL-0.47u
RX527
2.2K
031:4B
Cr_QY501_2
RX528
2.2K
QX513
2SA1576A
CX432
CH47pF
50V
CX434
CH47pF
50V
RX435
NOT MOUNT
RX437
1/8W680
RX534
0
LX436
TEM2027AD
[L2D]
CX113
16V 0.1uF
RAIN
016:1B
RX529
0
LX432
TEM2027AD
CX111
16V 0.1uF
BAIN
016:1C
RX530
0
LX435
TEM2027AD
CX112
16V 0.1uF
GAIN
016:1C
RX540
NOT MOUNT
RX517
1.2K
CX413
CH1pF
50V
RX413
68
RX414
220
QX413
2SC4081
[TRP]
LX411
PL-0.47u
RX525
2.2K
031:4C
Cb_QY501_2
RX526
2.2K
QX512
2SA1576A
CX412
CH47pF
50V
CX414
CH47pF
50V
RX415
NOT MOUNT
RX417
1/8W680
RX541
NOT MOUNT
RX516
1.2K
CX423
CH1pF
50V
QX424
2SC4081
[TRP]
RX523
1K
031:4E
Y_QY501_2
RX423
68
RX424
220
RX426
100
QX423
2SC4081
LX421
PL-0.47u
RX429
1/8W680
QX514
2SA1576A
RX524
1K
CX422
CH47pF
50V
CX424
CHB47pF
50V
RX425
NOT MOUNT
RX427
1/8W680
RX539
1.5K
SOGIN
016:1C
34HF84
G-Hyper (3/3)
SHEET-3/3
SH. NO.
15

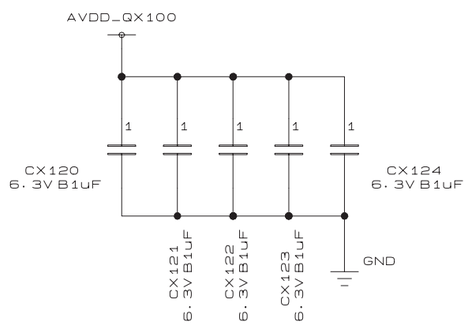


34HF84
AD-CONVERTER (A)
SHEET-1/3

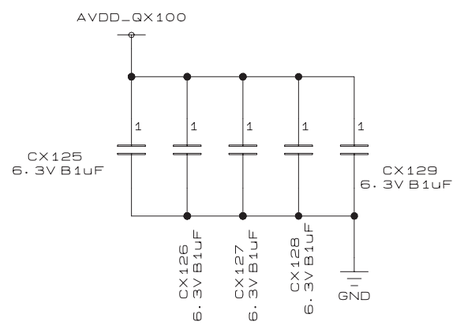
SH. NO.
16



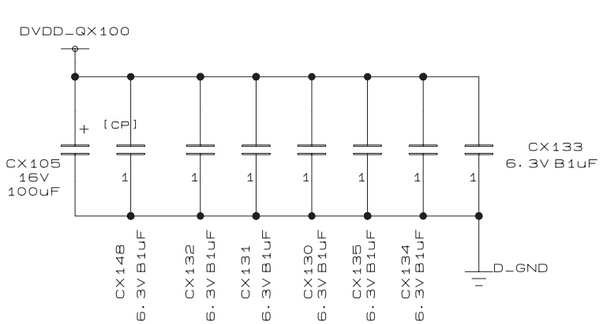
Capasitor for QX100



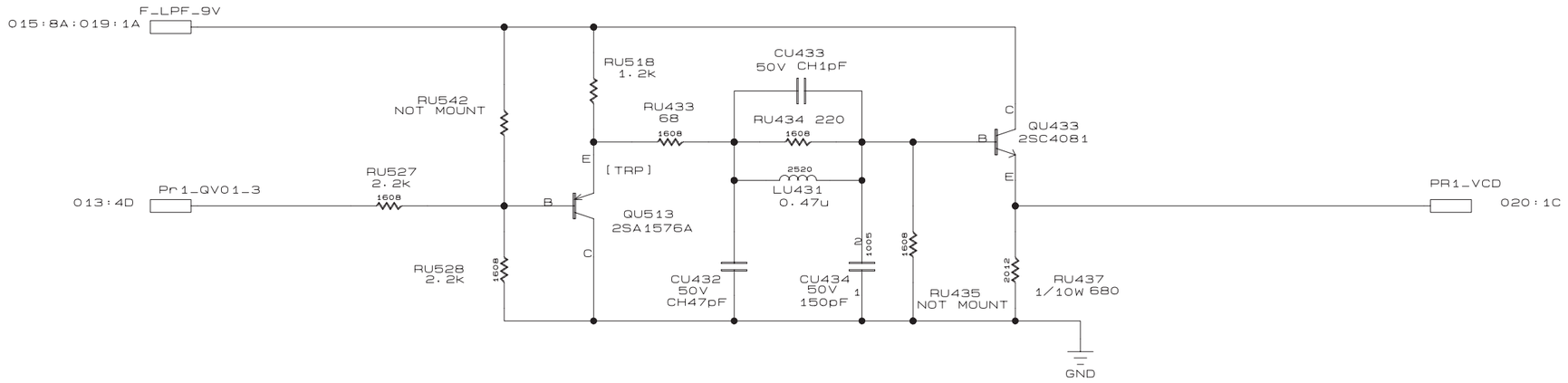
Capasitor for QX100



Capasitor for QX100

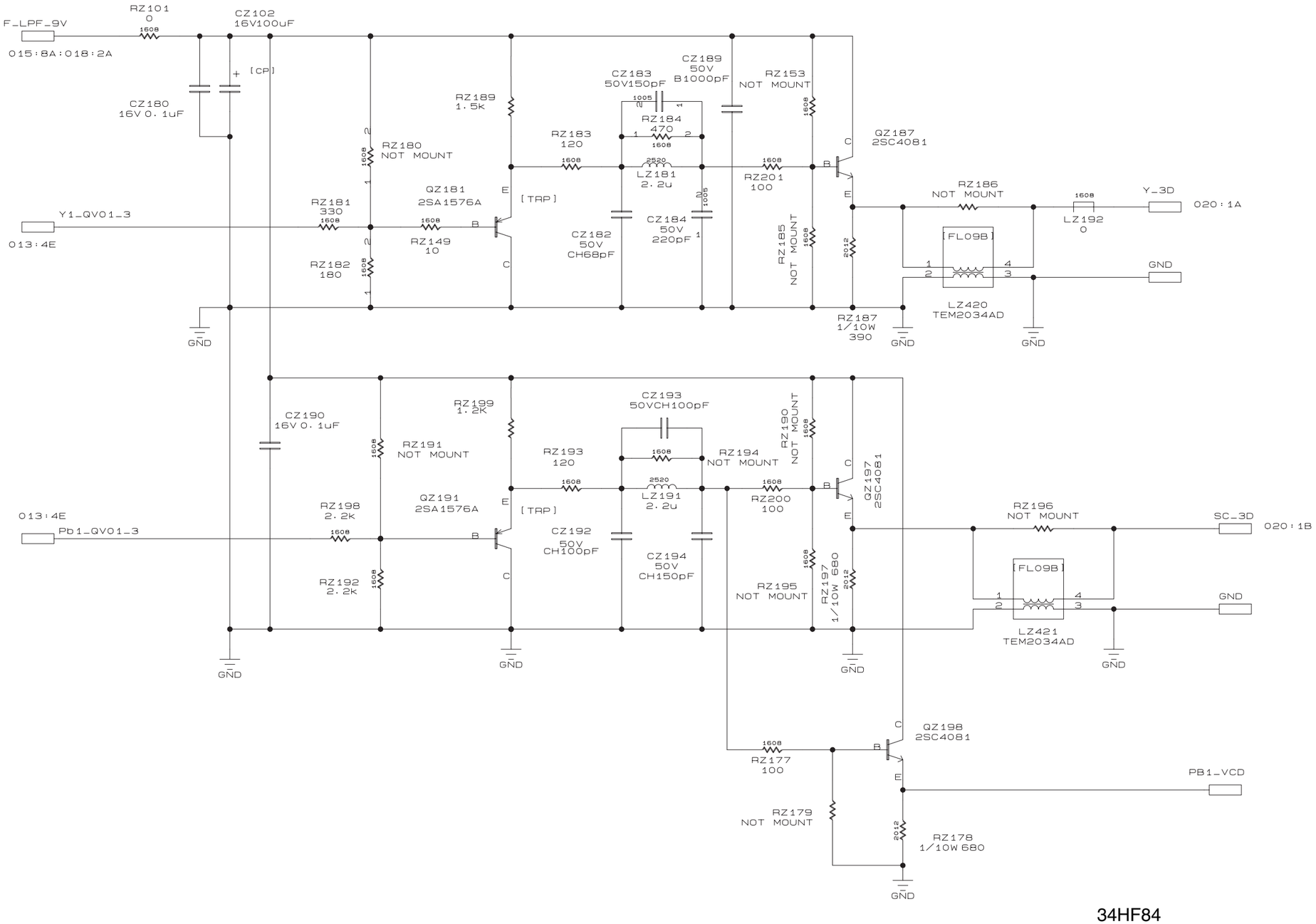


34HF84
AD-CONVERTER (B) SH. NO.
SHEET-2/3 17

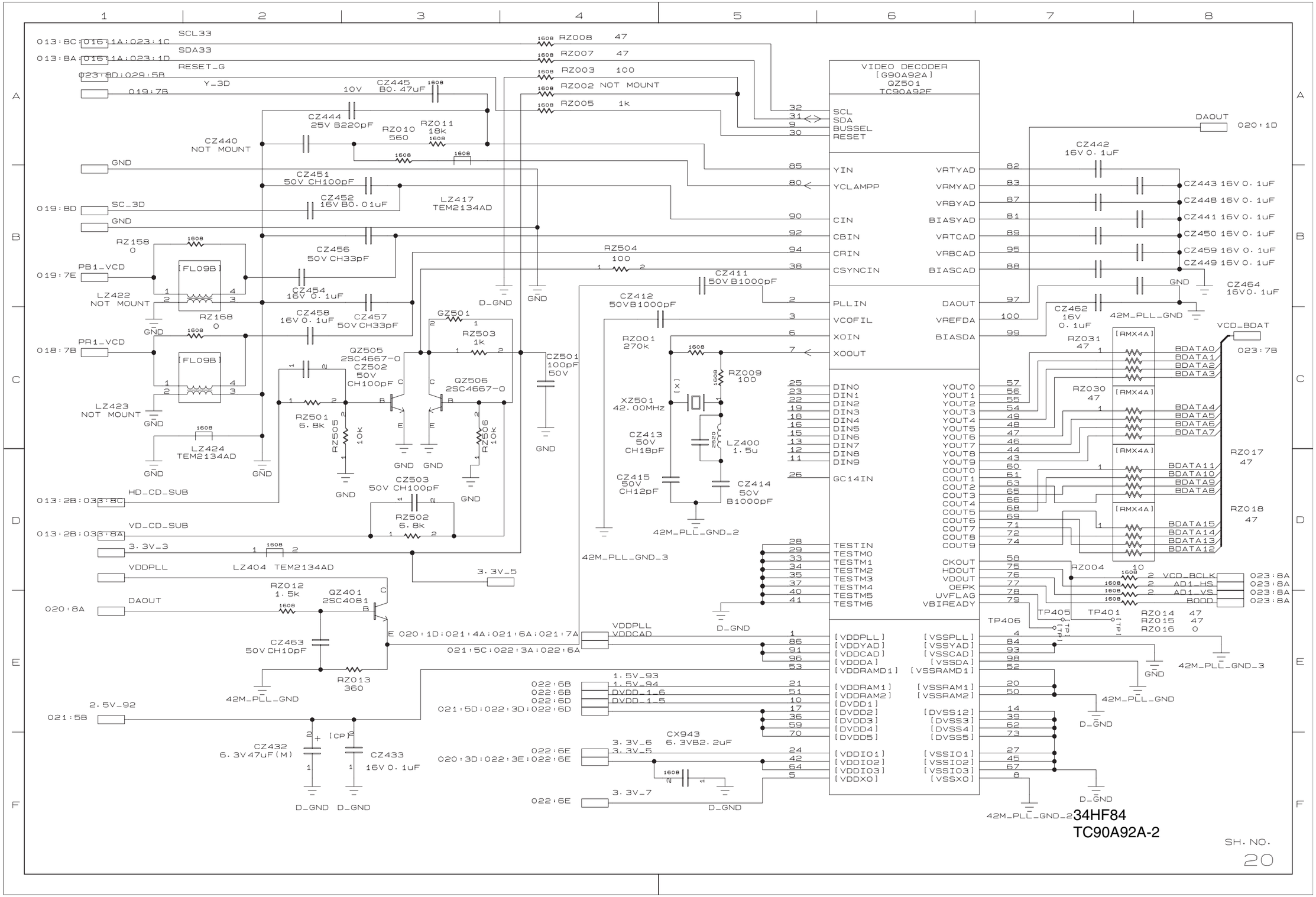


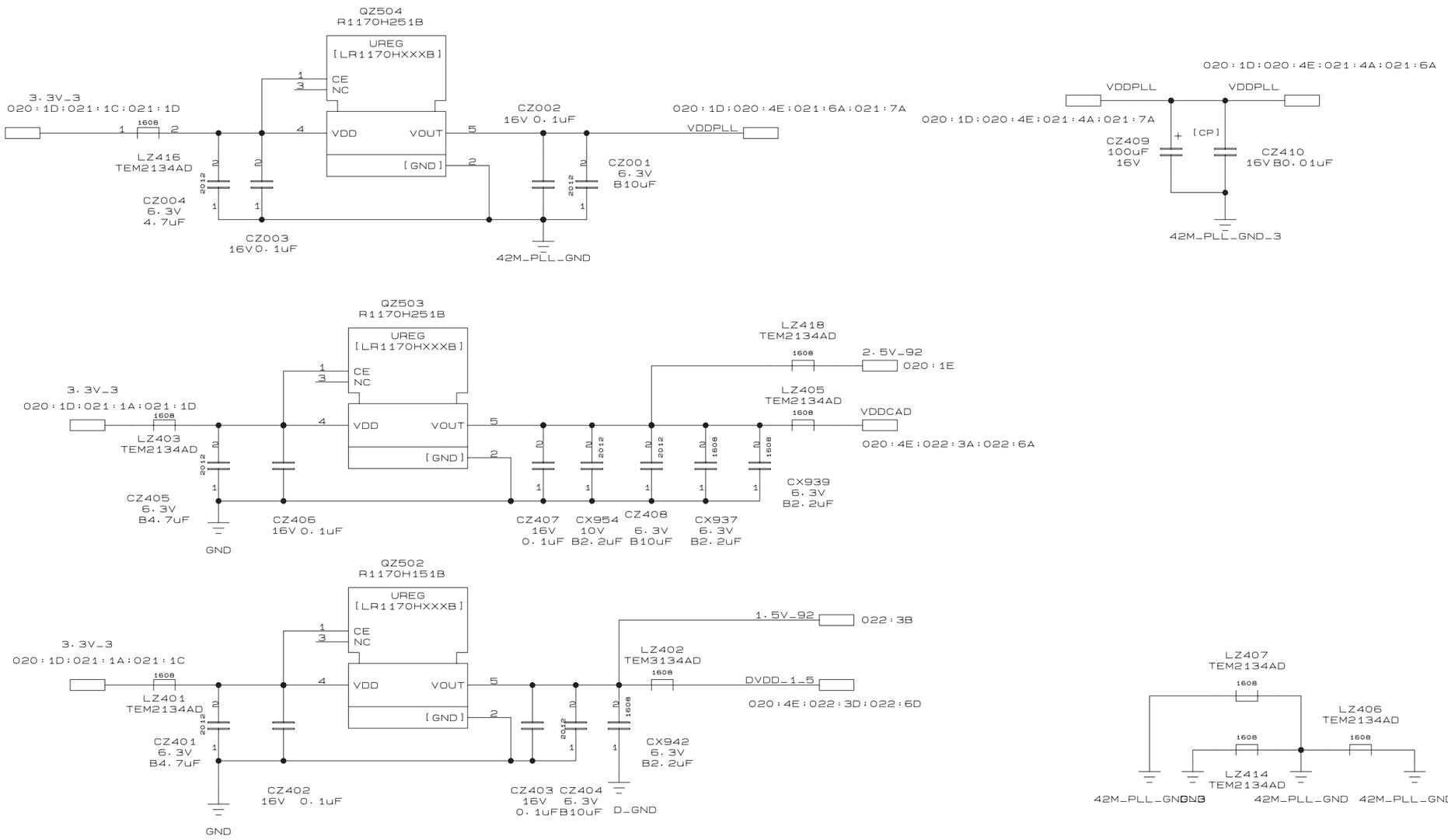
34HF84
AD-CONVERTER (C)
SHEET-3/3

SH. NO.
18


F_LPF_9V
015:8A:018:2A
RZ101
0
1608
CZ102
16V100uF
[CP]
CZ180
16V 0.1uF
RZ189
1.5k
CZ183
50V150pF
1005
RZ184
470
1608
CZ189
50V
B1000pF
RZ153
NOT MOUNT
RZ183
120
RZ180
NOT MOUNT
2520
LZ181
2.2u
QZ187
2SC4081
RZ201
100
RZ186
NOT MOUNT
Y_3D
020:1A
LZ192
0
Y1_QV01_3
013:4E
RZ181
330
QZ181
2SA1576A
[TRP]
RZ149
10
CZ182
50V
CH68pF
CZ184
50V
220pF
RZ185
NOT MOUNT
2012
[FL09B]
GND
LZ420
TEM2034AD
RZ187
1/10W
390
CZ190
16V 0.1uF
RZ199
1.2K
CZ193
50VCH100pF
RZ191
NOT MOUNT
RZ193
120
RZ194
NOT MOUNT
RZ190
NOT MOUNT
QZ197
2SC4081
RZ200
100
LZ191
2.2u
RZ198
2.2k
QZ191
2SA1576A
Pb1_QV01_3
013:4E
CZ192
50V
CH100pF
CZ194
50V
CH150pF
RZ192
2.2k
RZ195
NOT MOUNT
RZ197
1/10W 680
RZ196
NOT MOUNT
SC_3D
020:1B
LZ421
TEM2034AD
QZ198
2SC4081
RZ177
100
PB1_VCD
RZ179
NOT MOUNT
RZ178
1/10W 680
34HF84
TC90A92A-1
SH. NO.
19

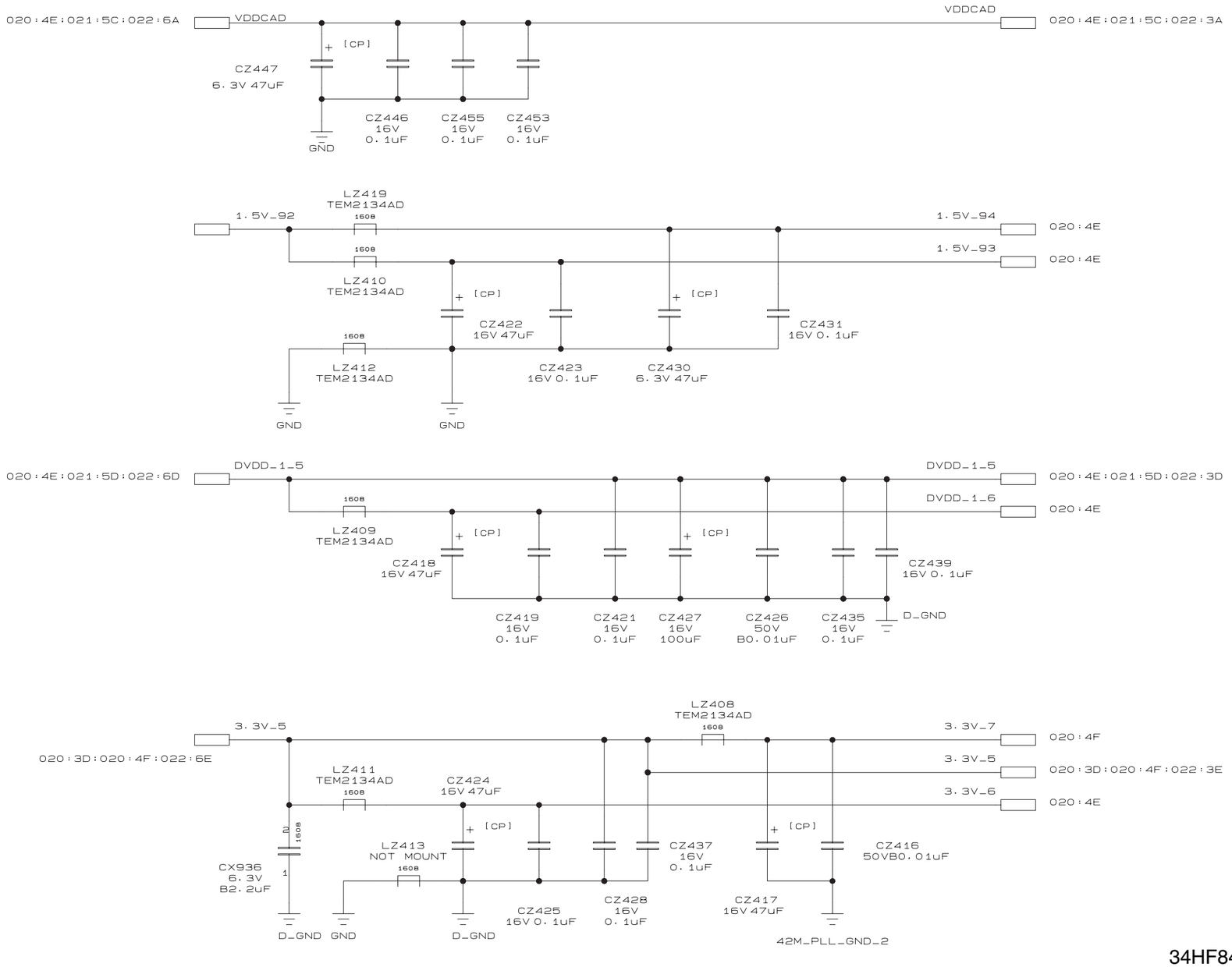
(19/52)


VIDEO DECODER
[G90A92A]
QZ501
TC90A92F
SCL33
SDA33
RESET_G
Y_3D
SC_3D
PB1_VCD
PR1_VCD
HD_CD_SUB
VD_CD_SUB
3.3V_3
VDDPLL
DAOUT
2.5V_92
D_GND
GND
42M_PLL_GND
42M_PLL_GND_2
42M_PLL_GND_3
VCD_BDAT
SCL
SDA
BUSSEL
RESET
YIN
YCLAMPP
CIN
CBIN
CRIN
CSYNCIN
PLLIN
VCOFIL
XOIN
XOOUT
DIN0
DIN1
DIN2
DIN3
DIN4
DIN5
DIN6
DIN7
DIN8
DIN9
GC14IN
TESTIN
TESTM0
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCAD
BIASCAD
DAOUT
VREFDA
BIASDA
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
OEPK
UVFLAG
VBIREADY
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDDA]
[VDDRAMD1]
[VDDRAM1]
[VDDRAM2]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSDA]
[VSSRAMD1]
[VSSRAM1]
[VSSRAM2]
[DVSS12]
[DVSS3]
[DVSS4]
[DVSS5]
[VSSIO1]
[VSSIO2]
[VSSIO3]
[VSSXO]
RZ008 47
RZ007 47
RZ003 100
RZ002 NOT MOUNT
RZ005 1k
RZ010 560
RZ011 18K
RZ158 0
RZ168 0
RZ504 100
RZ001 270k
RZ009 100
RZ501 6.8k
RZ505 10K
RZ503 1k
RZ506 10K
RZ502 6.8k
RZ012 1.5k
RZ013 360
RZ031 47
RZ030 47
RZ017 47
RZ018 47
RZ004 10
RZ014 47
RZ015 47
RZ016 0
CZ445 B0.47uF 10V
CZ444 25V B220pF
CZ440 NOT MOUNT
CZ451 50V CH100pF
CZ452 16V B0.01uF
CZ456 50V CH33pF
CZ454 16V 0.1uF
CZ458 16V 0.1uF
CZ457 50V CH33pF
CZ411 50V B1000pF
CZ412 50V B1000pF
CZ462 16V 0.1uF
CZ442 16V 0.1uF
CZ443 16V 0.1uF
CZ448 16V 0.1uF
CZ441 16V 0.1uF
CZ450 16V 0.1uF
CZ459 16V 0.1uF
CZ449 16V 0.1uF
CZ464 16V0.1uF
CZ501 100pF 50V
CZ502 50V CH100pF
CZ503 50V CH100pF
CZ463 50V CH10pF
CZ432 6.3V47uF(M)
CZ433 16V 0.1uF
CX943 6.3VB2.2uF
XZ501 42.00MHz
CZ413 50V CH18pF
CZ415 50V CH12pF
CZ414 50V B1000pF
LZ400 1.5u
LZ417 TEM2134AD
LZ422 NOT MOUNT
LZ423 NOT MOUNT
LZ424 TEM2134AD
LZ404 TEM2134AD
[FL09B]
GZ501
QZ505 2SC4667-O
QZ506 2SC4667-O
QZ401 2SC4081
[RMX4A]
BDATA0
BDATA1
BDATA2
BDATA3
BDATA4
BDATA5
BDATA6
BDATA7
BDATA11
BDATA10
BDATA9
BDATA8
BDATA15
BDATA14
BDATA13
BDATA12
VCD_BCLK
AD1_HS
AD1_VS
BODD
TP405
TP406
TP401
013:8C:016:1A:023:1C
013:8A:016:1A:023:1D
023:8D:029:5B
019:7B
019:8D
019:7E
018:7B
013:2B:033:8C
013:2B:033:8A
020:8A
021:5B
020:1D
023:7B
023:8A
021:5C:022:3A:022:6A
022:6B
022:6D
021:5D:022:3D:022:6D
022:6E
020:3D:022:3E:022:6E
020:1D:021:4A:021:6A:021:7A
1.5V_93
1.5V_94
DVDD_1_6
DVDD_1_5
3.3V_6
3.3V_5
3.3V_7
3.3V_4
34HF84
TC90A92A-2
SH. NO.
20



34HF84
GC-REG

SH. NO.
21



34HF84
TC90A92A-3

SH. NO.
22

QX300 GM6010

[G6010]

[INPUT]

016:7B	ACLK	154	ACLK1	BCLK1	7
016:1B	ACLAMP	155	AODD	BODD	8
016:7B	AD_VS	156	AVS	BVS	9
016:7B	AD_HS	157	AHS_CS	BHS_CS	10
		207	ASOY_G+	BSOY_G+	204
		206	ASOY_G-	BSOY_G-	205
017:2C	ARAWHS_CS	158	ARAWHS_CS	BRAWHS_CS	13
027:2A	ACREF	159	ACREF	BCREF	14
016:7B	GENESIS_ADATA	160	AHREF_DE	BHREF_DE	15
	AD-G7	163	ADATA23	BDATA23	16
	AD-G6	164	ADATA22	BDATA22	18
	AD-G5	165	ADATA21	BDATA21	19
	AD-G4	168	ADATA20	BDATA20	20
	AD-G3	169	ADATA19	BDATA19	22
	AD-G2	170	ADATA18	BDATA18	23
	AD-G1	171	ADATA17	BDATA17	24
	AD-G0	172	ADATA16	BDATA16	25
	AD-B7	173	ADATA15	BDATA15	28
	AD-B6	174	ADATA14	BDATA14	29
	AD-B5	175	ADATA13	BDATA13	30
	AD-B4	176	ADATA12	BDATA12	31
	AD-B3	177	ADATA11	BDATA11	32
	AD-B2	178	ADATA10	BDATA10	34
	AD-B1	179	ADATA9	BDATA9	35
	AD-B0	180	ADATA8	BDATA8	36
	AD-R7	181	ADATA7	BDATA7	37
	AD-R6	182	ADATA6	BDATA6	38
	AD-R5	183	ADATA5	BDATA5	39
	AD-R4	186	ADATA4	BDATA4	42
	AD-R3	187	ADATA3	BDATA3	43
	AD-R2	188	ADATA2	BDATA2	44
	AD-R1	189	ADATA1	BDATA1	45
	AD-R0	190	ADATA0	BDATA0	46

[ANALOG_DIS.]

		65	IOG_Y		
		66	/IOG_Y	RSET	74
		68	IOB_Pb		
		69	/IOB_Pb	COMP	75
		71	IOR_Pr		
		72	/IOR_Pr	VREF	76

[DISP CONT.]

		49	DHS_CS	DODD	53
		50	DVS		
		52	DDE_BLANK	DCLK	54

[HOST INTER.]

		3	SCLK	/SCS	
		5		/RESET	
		6	SDATA	/IRQ	

[PLL/DDS]

		201	XTAL	GPIO1	47
		202	TCLK	GPIO2	48
		62	NC	NC	79
		208	AVDD_CSS	AVSS_CSS	203
		200	AVDD_RPLL	AVSS_RPLL	199
		198	AVDD_MPLL	AVSS_MPLL	197
		194	AVDD_DDS	AVSS_DDS	193
		196	VDD_PLL	VSS_PLL	195
		192	VDD_DDS	VSS_DDS	191
		64	VDD_DAC	VSS_DAC	63
		67	AVDD_DAC	AVSS_DAC	77
		70	AVDD_DAC	AVSS_DAC	78
		73	AVDD_DAC		
		21	VDD(3.3V)	VSS	1
		51	VDD(3.3V)	VSS	11
		162	VDD(3.3V)	VSS	17
		12	CVDD(2.5V)	VSS	26
		27	CVDD(2.5V)	VSS	33
		41	CVDD(2.5V)	VSS	40
		55	CVDD(2.5V)	VSS	56
		58	CVDD(2.5V)	VSS	57
		61	CVDD(2.5V)	VSS	59
		80	CVDD(2.5V)	VSS	60
		83	CVDD(2.5V)	VSS	81
		167	CVDD(2.5V)	VSS	82
		185	CVDD(2.5V)	VSS	84
				VSS	161
				VSS	166
				VSS	184

CSS_3.3V
RX581 330k 1608
D_GND
RX503 56
RX502 56
RX501 56
DAC_GND
LX906 LX904 TEM2134AD DHS TEM2134AD
LX907 LX905 TEM2134AD DVS TEM2134AD
[RMX4A] RX313 47
TPX02
013:8C:016:1A:020:1A
SCL33
SDA33
RX504 47
RX505 47
013:8A:016:1A:020:1A
RX512 NOT MOUNT
CX500 50V CH22pF
AVDD_3.3
X500 14.32MHz [X]
CX533 50V CH22pF
PLL_GND
CSS_3.3V
RX513 3.3k
DAC_2.5
DACVDD_3.3
+3.3V
CVDD_2.5
CSS_3.3V
+3.3V
RX582 330k
D_GND
RX021 10k
RX020 47
RX002 NOT MOUNT
VCD_BCLK
VCD_BDATA
RX506 1.5K
RX607 220
DAC_GND
DACVDD_3.3
CX501 16V 0.1uF
[RMX4A] RX314 47
[TP] TPX03
TPX04
GPIO1_HVSW
RESET_G
RX578 47k
CX932 NOT MOUNT
IRQ_1
RX507 1k
CX934 6.3V B2.2uF
CX933 B2.2uF 6.3V
GND
PLL_GND
DAC_GND

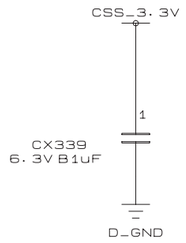
BODD 020:8D
AD1_VS 020:8D
AD1_HS 020:8D
VCD_BCLK 020:8D
VCD_BDATA 020:8C
GPIO0_HBLK 014:2A
GPIO1_HVSW 017:2B
RESET_G 020:1A:029:5B
IRQ_1 006:1C

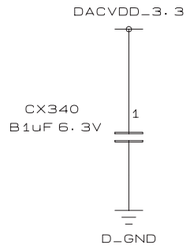
① IOR_Y
② IOR_PB
③ IOR_PR

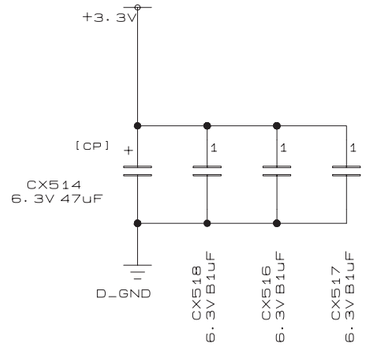
34HF84
GNESIS (1/3)
SHEET-1/3

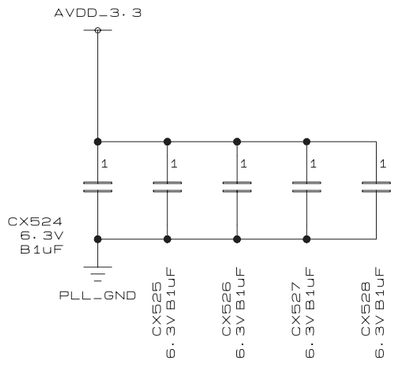
SH. NO.
23

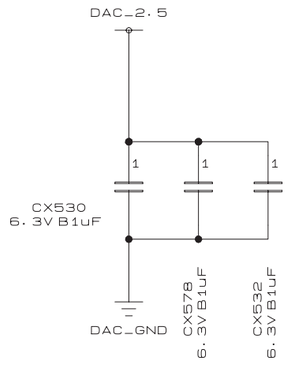
Capasitor for QX300

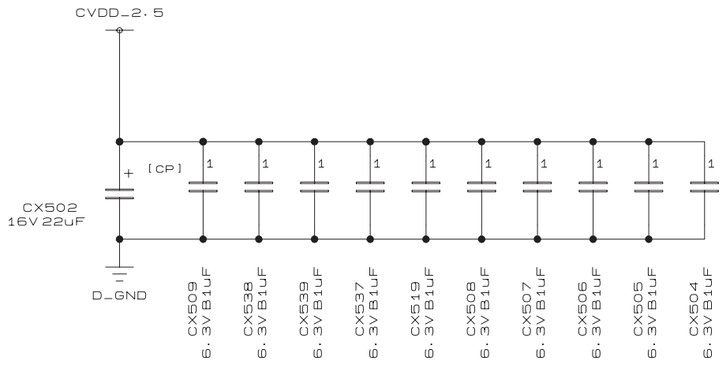






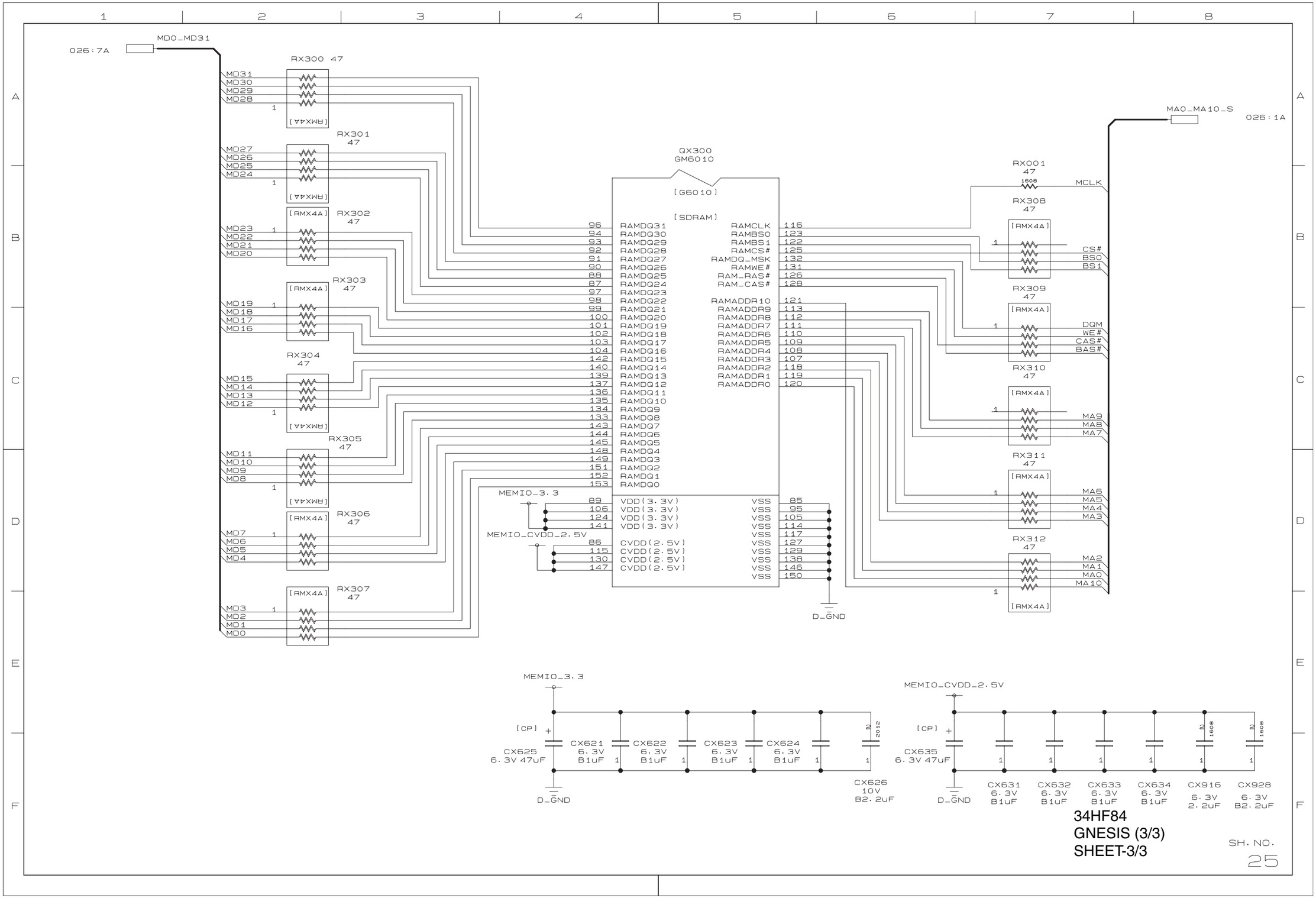




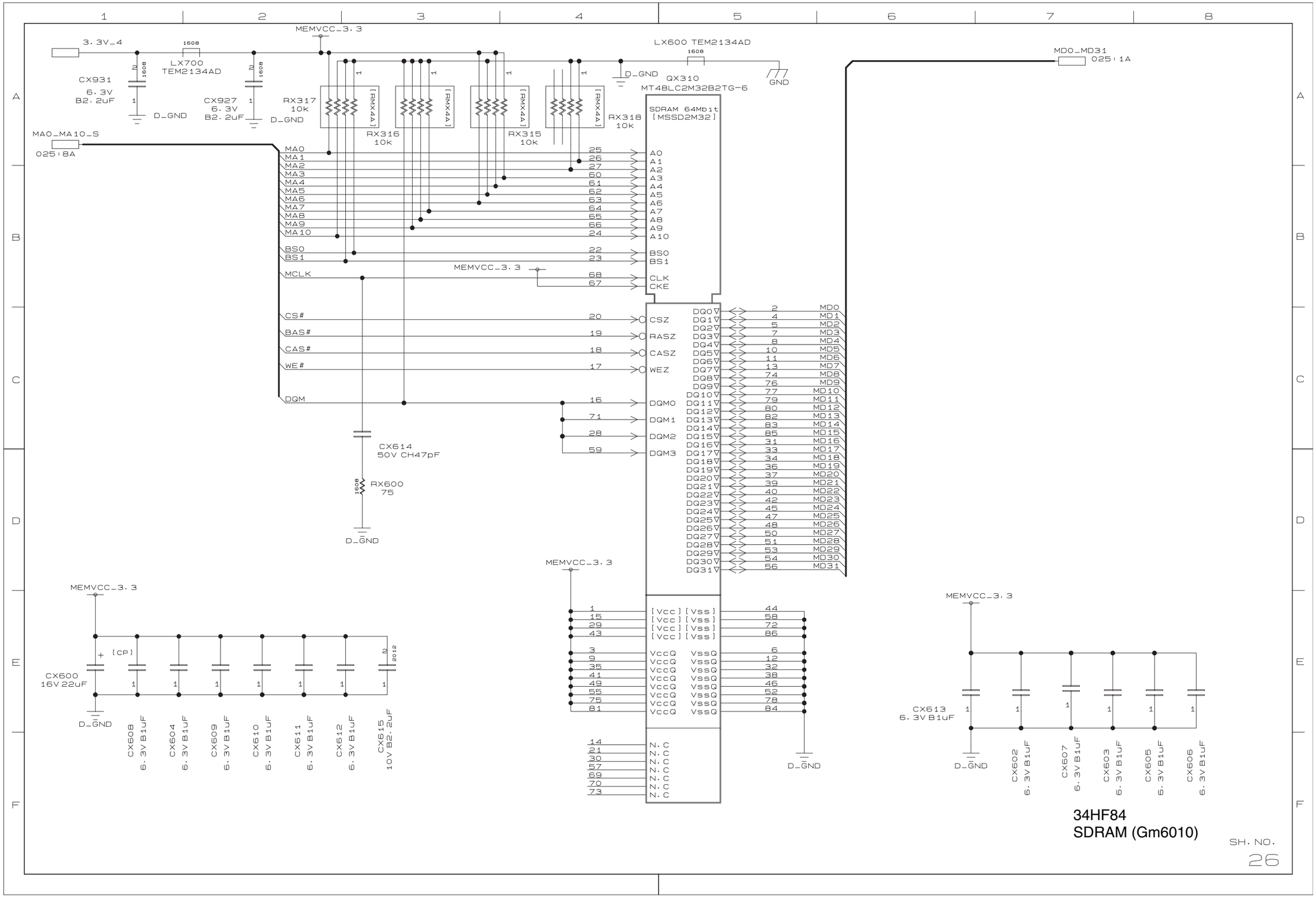


34HF84
GNESIS (2/3)
SHEET-2/3

SH. NO.
24


MD0_MD31
026:7A
RX300 47
RX301 47
RX302 47
RX303 47
RX304 47
RX305 47
RX306 47
RX307 47
MD31
MD30
MD29
MD28
MD27
MD26
MD25
MD24
MD23
MD22
MD21
MD20
MD19
MD18
MD17
MD16
MD15
MD14
MD13
MD12
MD11
MD10
MD9
MD8
MD7
MD6
MD5
MD4
MD3
MD2
MD1
MD0
[RMX4A]
QX300
GM6010
[G6010]
[SDRAM]
RAMDQ31
RAMDQ30
RAMDQ29
RAMDQ28
RAMDQ27
RAMDQ26
RAMDQ25
RAMDQ24
RAMDQ23
RAMDQ22
RAMDQ21
RAMDQ20
RAMDQ19
RAMDQ18
RAMDQ17
RAMDQ16
RAMDQ15
RAMDQ14
RAMDQ13
RAMDQ12
RAMDQ11
RAMDQ10
RAMDQ9
RAMDQ8
RAMDQ7
RAMDQ6
RAMDQ5
RAMDQ4
RAMDQ3
RAMDQ2
RAMDQ1
RAMDQ0
RAMCLK
RAMBS0
RAMBS1
RAMCS#
RAMDQ_MSK
RAMWE#
RAM_RAS#
RAM_CAS#
RAMADDR10
RAMADDR9
RAMADDR8
RAMADDR7
RAMADDR6
RAMADDR5
RAMADDR4
RAMADDR3
RAMADDR2
RAMADDR1
RAMADDR0
MEMIO_3.3
MEMIO_CVDD_2.5V
VDD(3.3V)
CVDD(2.5V)
VSS
D_GND
RX001 47
RX308 47
RX309 47
RX310 47
RX311 47
RX312 47
MCLK
CS#
BS0
BS1
DQM
WE#
CAS#
BAS#
MA9
MA8
MA7
MA6
MA5
MA4
MA3
MA2
MA1
MA0
MA10
MA0_MA10_S
026:1A
[CP]
CX625 6.3V 47uF
CX621 6.3V B1uF
CX622 6.3V B1uF
CX623 6.3V B1uF
CX624 6.3V B1uF
CX626 10V B2.2uF
CX635 6.3V 47uF
CX631 6.3V B1uF
CX632 6.3V B1uF
CX633 6.3V B1uF
CX634 6.3V B1uF
CX916 6.3V 2.2uF
CX928 6.3V B2.2uF
34HF84
GNESIS (3/3)
SHEET-3/3
SH. NO.
25

(25/52)


3.3V_4
LX700 TEM2134AD
CX931 6.3V B2.2uF
CX927 6.3V B2.2uF
D_GND
MEMVCC_3.3
RX317 10k
RX316 10k
RX315 10k
RX318 10k
LX600 TEM2134AD
QX310 MT48LC2M32B2TG-6
GND
MD0_MD31
025:1A
MA0_MA10_S
025:8A
SDRAM 64Mbit [MSSD2M32]
MA0
MA1
MA2
MA3
MA4
MA5
MA6
MA7
MA8
MA9
MA10
BS0
BS1
MCLK
CS#
BAS#
CAS#
WE#
DQM
CSZ
RASZ
CASZ
WEZ
DQM0
DQM1
DQM2
DQM3
CLK
CKE
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
DQ16
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DQ20
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DQ25
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DQ31
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MD2
MD3
MD4
MD5
MD6
MD7
MD8
MD9
MD10
MD11
MD12
MD13
MD14
MD15
MD16
MD17
MD18
MD19
MD20
MD21
MD22
MD23
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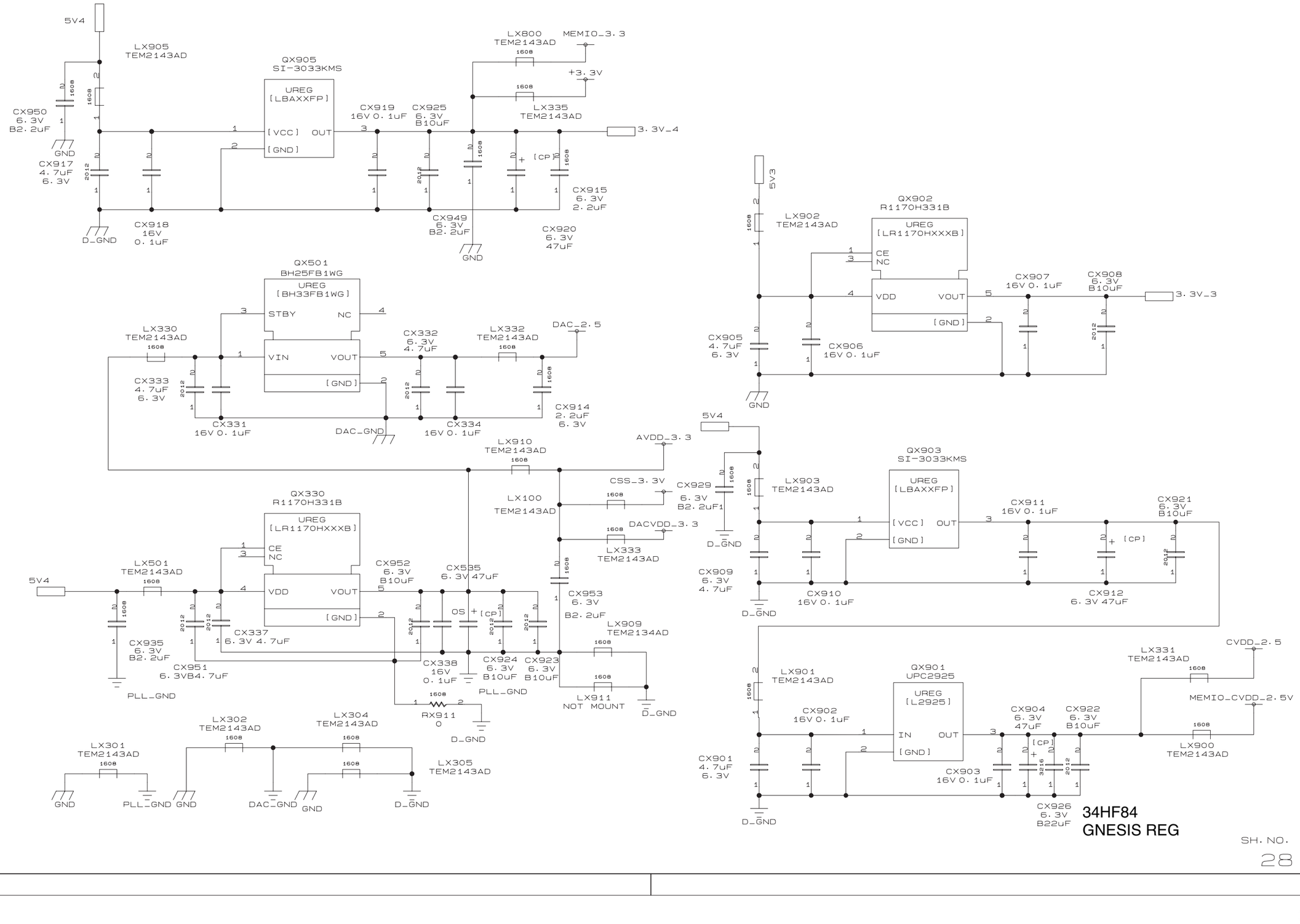
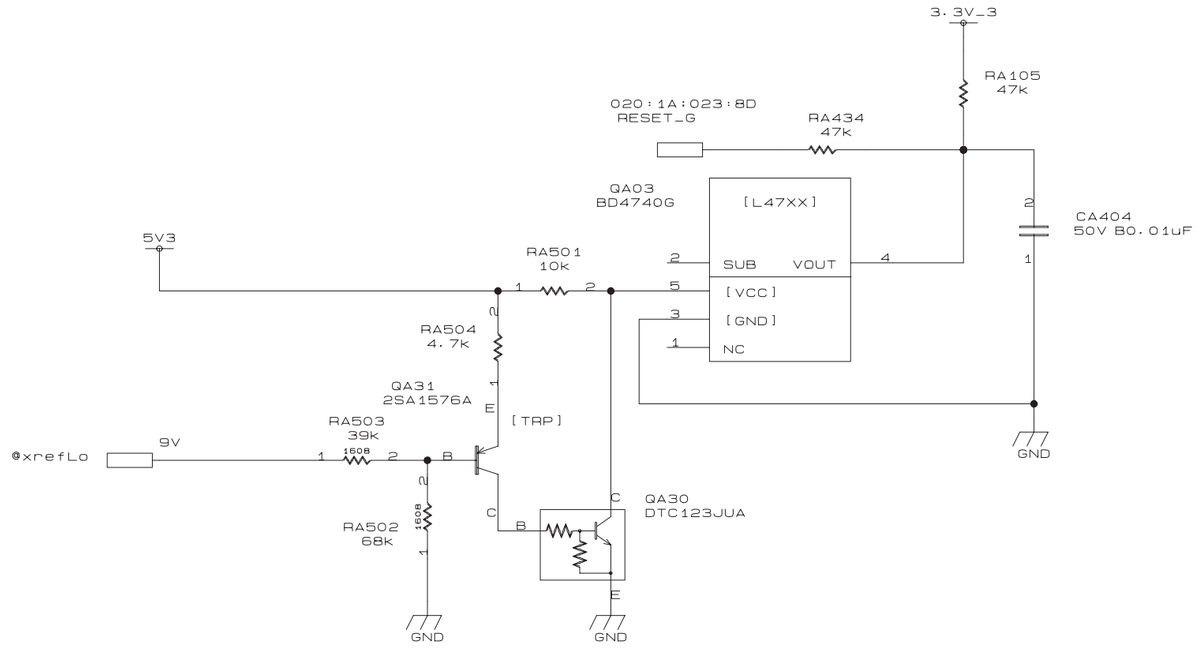
MD25
MD26
MD27
MD28
MD29
MD30
MD31
CX614 50V CH47pF
RX600 75
[Vcc]
[Vss]
VccQ
VssQ
N.C
CX600 16V 22uF
CX608 6.3V B1uF
CX604 6.3V B1uF
CX609 6.3V B1uF
CX610 6.3V B1uF
CX611 6.3V B1uF
CX612 6.3V B1uF
CX615 10V B2.2uF
CX613 6.3V B1uF
CX602 6.3V B1uF
CX607 6.3V B1uF
CX603 6.3V B1uF
CX605 6.3V B1uF
CX606 6.3V B1uF
34HF84
SDRAM (Gm6010)
SH. NO.
26

012:7E:029:6F:029:7F
5V4
023:1A
ACREF
DACVDD_3.3
+3.3V
RX500 10k
RX508
NOT MOUNT
LX601 TEM2134AD
LX308
TEM2134AD
LX542
TEM2134AD
CX930
6.3VB2.2uF
GND
RX514
680
CX576
16V 0.1uF
CX948
6.3V
B2.2uF
RX616
680
CX636
16V 0.1uF
[TRP]
RX553
NOT MOUNT
CX555
16V 0.1uF
[CP]
CX556
16V
22uF
CX553
50V CH10pF
RX555 200
RX557
1/10W
680
YOUT
014:2D
QX552
2SA1576A
[TRP]
RX608
10
RX511
10
QX511
2SA1576A
023:1B
IOR_Y
RX609
NOT MOUNT
QX573
2SA1576A
[L2D]
LX551
TEM2027AD
RX601
68
LX552
0.47u
CX552
50V
CH47pF
CX554
50V
CH47pF
RX556
NOT MOUNT
GND
IOR_Y-1
023:1B
RX617
0
RX522
680
CX577
16V
0.1uF
RX610
680
CX637
16V
0.1uF
QX521
2SA1576A
RX563
NOT MOUNT
CX565
16V
0.1uF
CX563
50V CH1pF
RX567
1/10W
680
QX574
2SA1576A
RX521
10
[TRP]
RX565 470
QX562
2SA1576A
PBOUT
014:2D
RX611
10
023:1B
IOR_PB
RX612
NOT MOUNT
[L2D]
LX561
TEM2027AD
RX602
68
LX562
0.47u
CX562
50V
CH100pF
CX564
50V
CH27pF
RX566
NOT MOUNT
GND
IOR_PB-1
023:1B
RX618
0
CX638
16V
0.1uF
RX535
680
CX531
16V
0.1uF
RX573
NOT MOUNT
CX573
50V CH1pF
RX577
1/10W
680
CX575
16V0.1uF
RX613
680
QX575
2SA1576A
RX531
100
RX575 470
PROUT
014:2C
QX572
2SA1576A
[TRP]
RX614
10
023:1C
IOR_PR
RX615
NOT MOUNT
QX531
2SA1576A
[L2D]
LX571
TEM2027AD
RX603
68
LX572
0.47u
CX572
50V
CH100pF
CX574
50V CH27pF
RX576
NOT MOUNT
GND
IOR_PR-1
023:1C
RX619
0
DAC_GND
LX500
TEM2134AD
GND

34HF84
GNESIS OUT

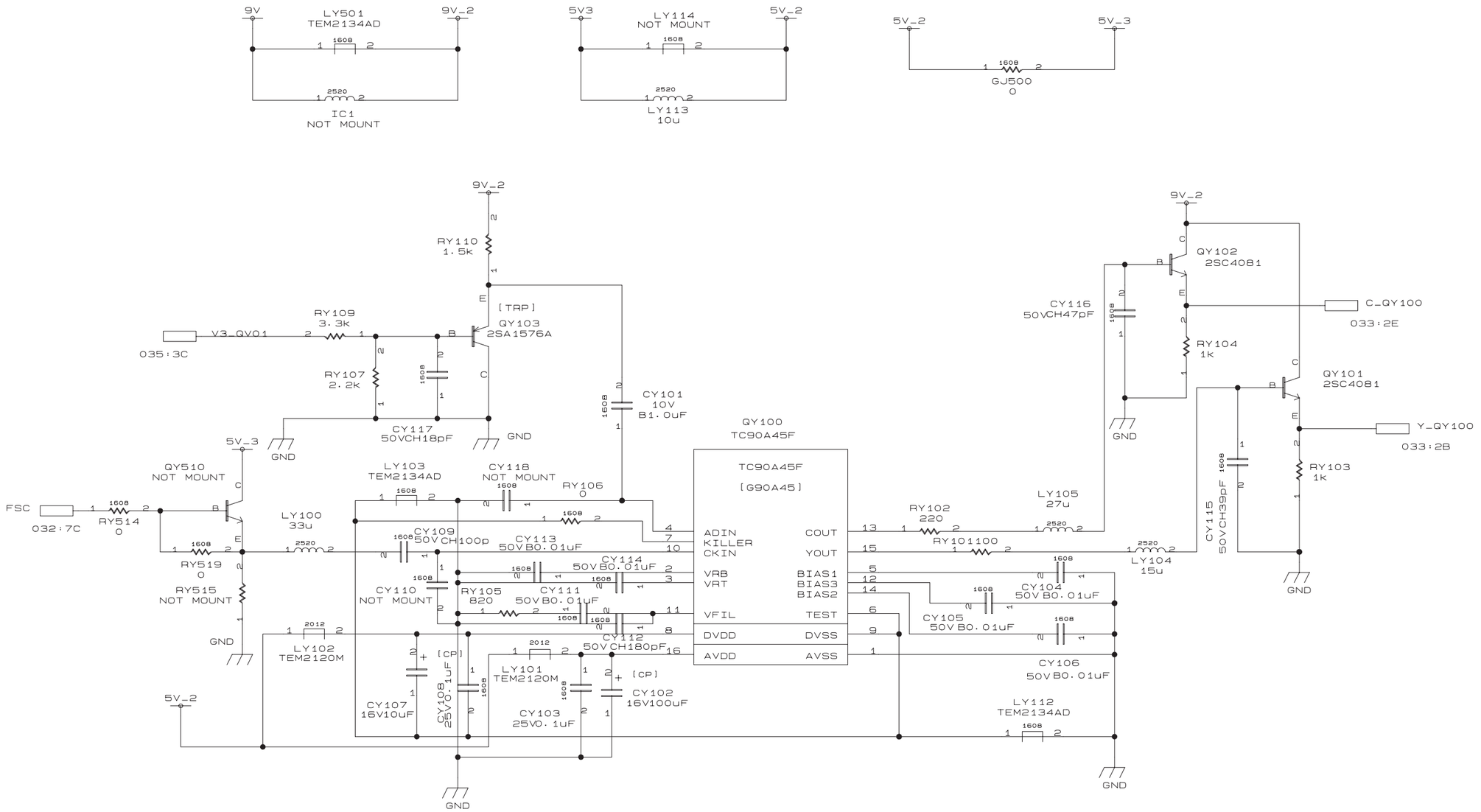
SH. NO.
27


5V4
LX905
TEM2143AD
QX905
SI-3033KMS
UREG
[LBAXXFP]
[VCC]
OUT
[GND]
CX950
6.3V
B2.2uF
GND
CX917
4.7uF
6.3V
CX919
16V 0.1uF
CX925
6.3V
B10uF
LX800
TEM2143AD
MEMIO_3.3
+3.3V
LX335
TEM2143AD
3.3V_4
[CP]
CX915
6.3V
2.2uF
D_GND
CX918
16V
0.1uF
CX949
6.3V
B2.2uF
CX920
6.3V
47uF
QX501
BH25FB1WG
UREG
[BH33FB1WG]
STBY
NC
VIN
VOUT
LX330
TEM2143AD
LX332
TEM2143AD
DAC_2.5
CX332
6.3V
4.7uF
CX333
4.7uF
6.3V
CX331
16V 0.1uF
DAC_GND
CX334
16V 0.1uF
CX914
2.2uF
6.3V
LX910
TEM2143AD
AVDD_3.3
QX330
R1170H331B
UREG
[LR1170HXXXB]
CE
NC
VDD
VOUT
[GND]
LX100
TEM2143AD
CSS_3.3V
DACVDD_3.3
LX333
TEM2143AD
LX501
TEM2143AD
5V4
CX952
6.3V
B10uF
CX585
6.3V 47uF
CX953
6.3V
B2.2uF
CX935
6.3V
B2.2uF
CX337
6.3V 4.7uF
CX951
6.3VB4.7uF
CX338
16V
0.1uF
CX924
6.3V
B10uF
CX923
6.3V
B10uF
LX909
TEM2134AD
LX911
NOT MOUNT
PLL_GND
RX911
0
LX302
TEM2143AD
LX304
TEM2143AD
LX301
TEM2143AD
LX305
TEM2143AD
GND
PLL_GND
DAC_GND
D_GND
5V3
LX902
TEM2143AD
QX902
R1170H331B
CE
NC
VDD
VOUT
[GND]
CX907
16V 0.1uF
CX908
6.3V
B10uF
3.3V_3
CX905
4.7uF
6.3V
CX906
16V 0.1uF
5V4
LX903
TEM2143AD
QX903
SI-3033KMS
CX929
6.3V
B2.2uF
CX911
16V 0.1uF
CX921
6.3V
B10uF
CX909
6.3V
4.7uF
CX910
16V 0.1uF
CX912
6.3V 47uF
LX901
TEM2143AD
QX901
UPC2925
UREG
[L2925]
IN
OUT
CX902
16V 0.1uF
CX904
6.3V
47uF
CX922
6.3V
B10uF
CX901
4.7uF
6.3V
CX903
16V 0.1uF
CX926
6.3V
B22uF
LX331
TEM2143AD
CVDD_2.5
MEMIO_CVDD_2.5V
LX900
TEM2143AD
34HF84
GNESIS REG
SH. NO.
28



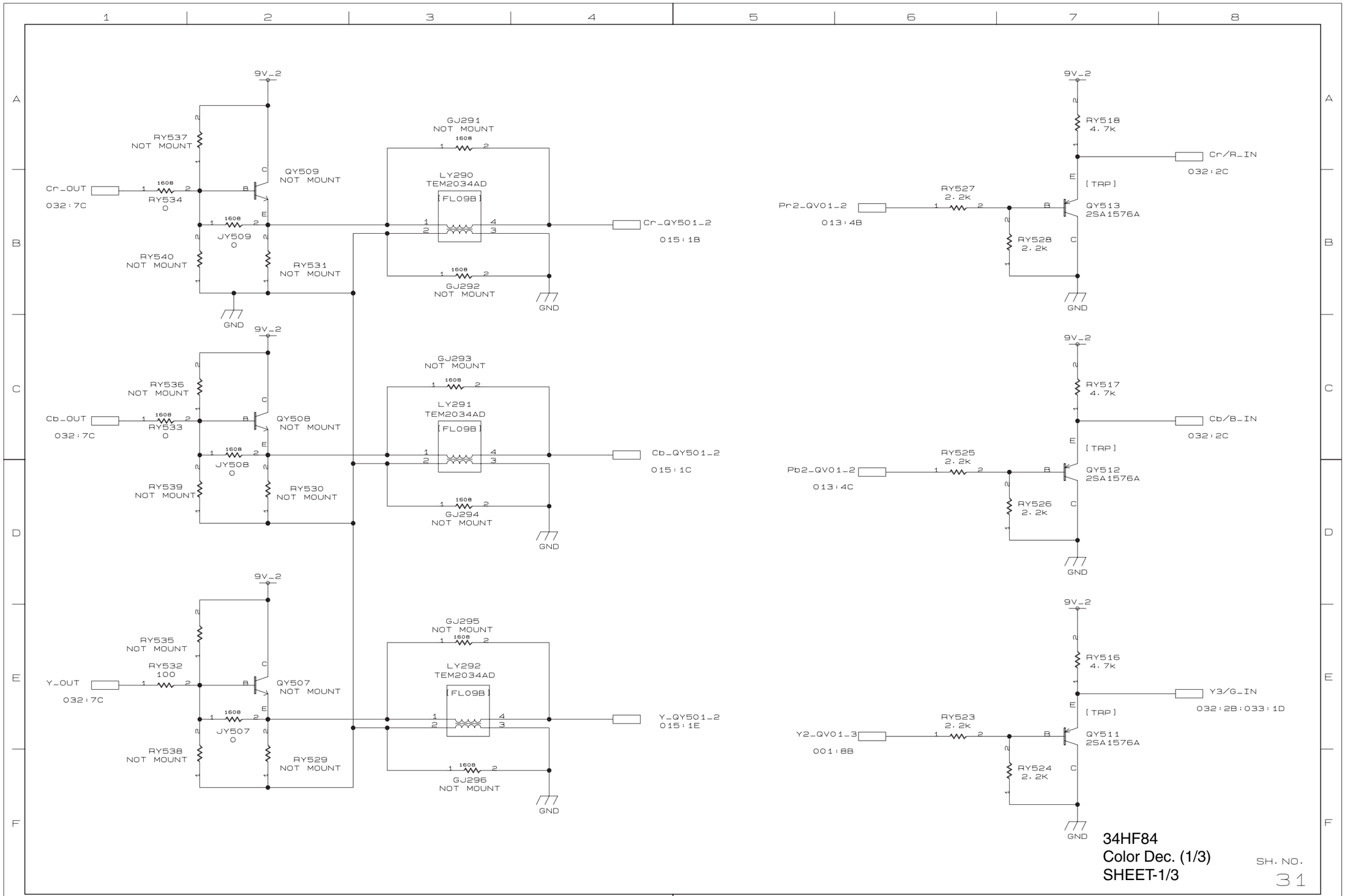
34HF84
CPU

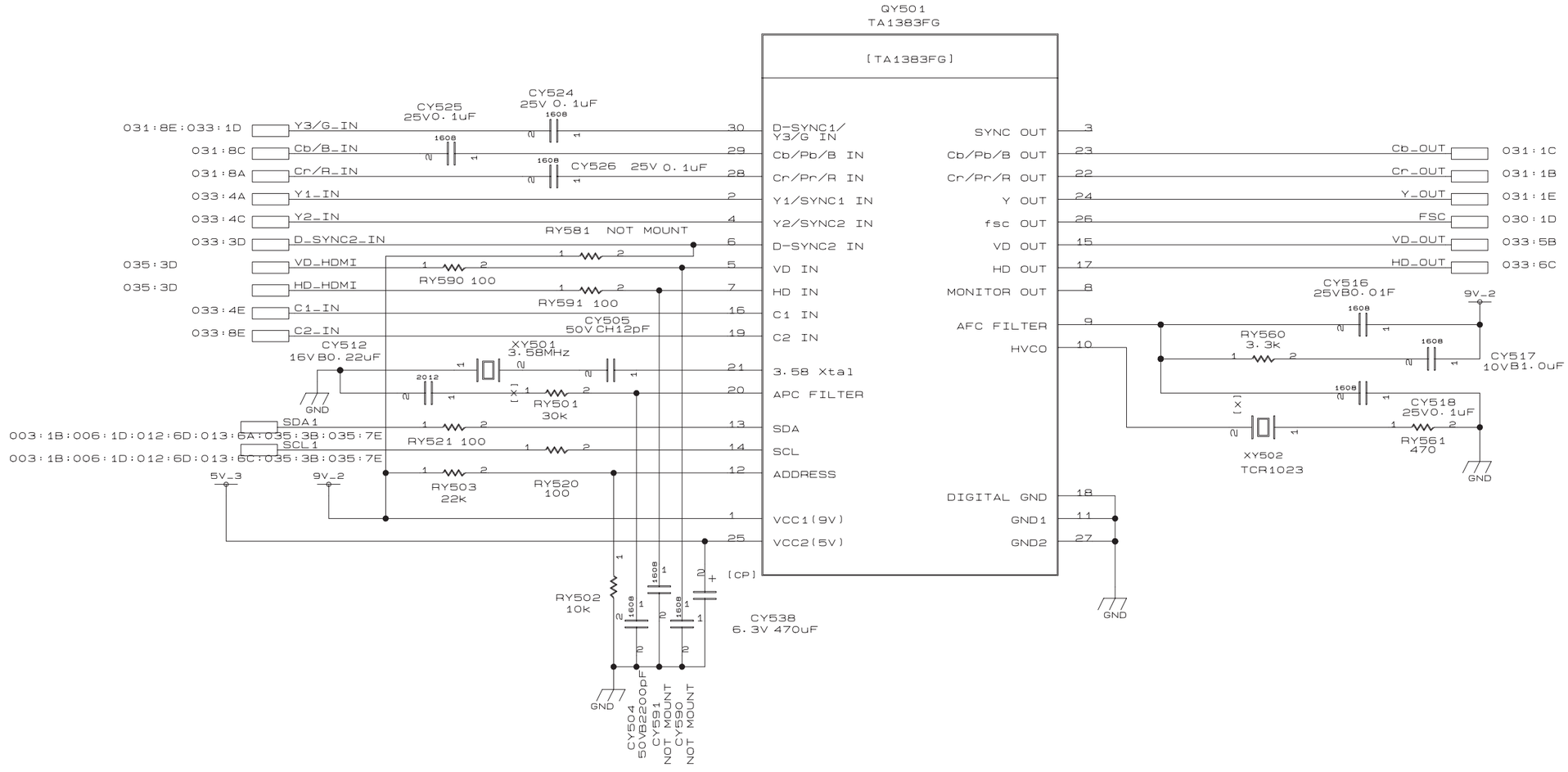
SH. NO.
29



34HF84
PIP

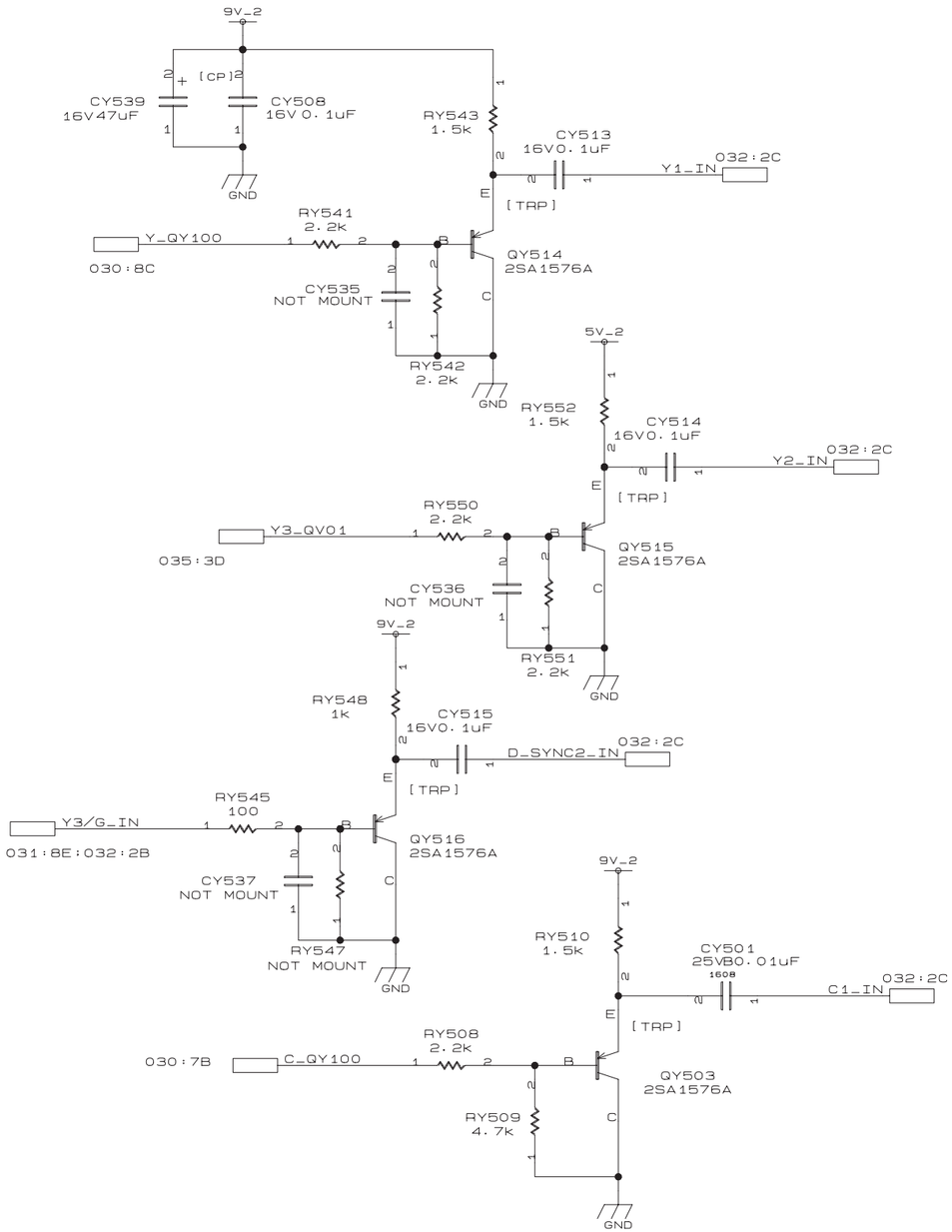
SH. NO.
30


9V_2
RY537
NOT MOUNT
QY509
NOT MOUNT
Cr_OUT
032:7C
RY534
0
JY509
0
RY540
NOT MOUNT
RY531
NOT MOUNT
GND
GJ291
NOT MOUNT
LY290
TEM2034AD
[FL09B]
GJ292
NOT MOUNT
Cr_QY501_2
015:1B
9V_2
RY536
NOT MOUNT
QY508
NOT MOUNT
Cb_OUT
032:7C
RY533
0
JY508
0
RY539
NOT MOUNT
RY530
NOT MOUNT
GND
GJ293
NOT MOUNT
LY291
TEM2034AD
[FL09B]
GJ294
NOT MOUNT
Cb_QY501_2
015:1C
9V_2
RY535
NOT MOUNT
RY532
100
QY507
NOT MOUNT
Y_OUT
032:7C
JY507
0
RY538
NOT MOUNT
RY529
NOT MOUNT
GND
GJ295
NOT MOUNT
LY292
TEM2034AD
[FL09B]
GJ296
NOT MOUNT
Y_QY501_2
015:1E
9V_2
RY518
4.7k
Cr/R_IN
032:2C
[TRP]
RY527
2.2k
Pr2_QV01_2
013:4B
QY513
2SA1576A
RY528
2.2k
GND
9V_2
RY517
4.7k
Cb/B_IN
032:2C
[TRP]
RY525
2.2k
Pb2_QV01_2
013:4C
QY512
2SA1576A
RY526
2.2k
GND
9V_2
RY516
4.7k
Y3/G_IN
032:2B:033:1D
[TRP]
RY523
2.2k
Y2_QV01_3
001:8B
QY511
2SA1576A
RY524
2.2K
GND
34HF84
Color Dec. (1/3)
SHEET-1/3
SH. NO.
31



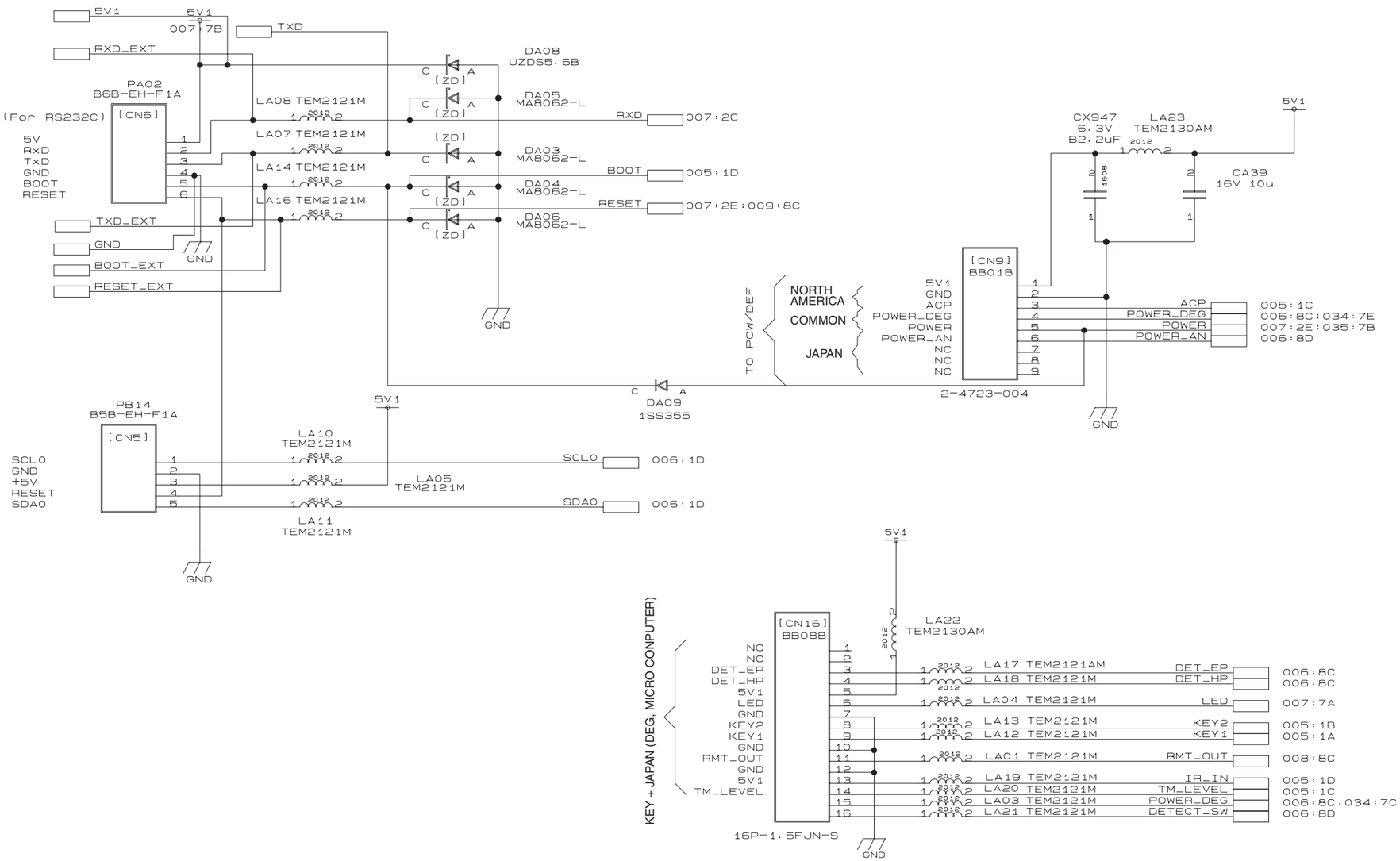
34HF84
Color Dec. (2/3)
SHEET-2/3

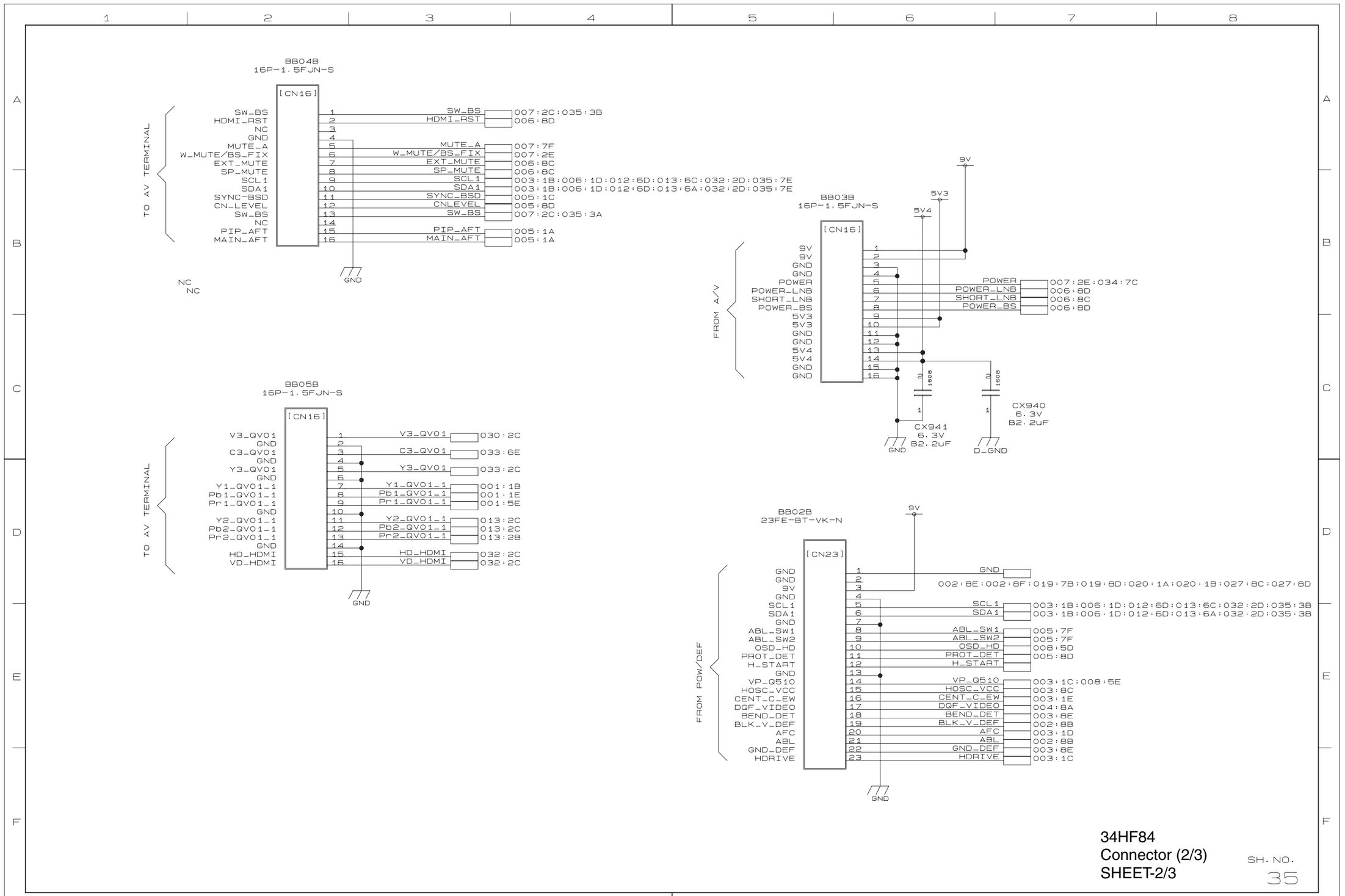
SH. NO.
32

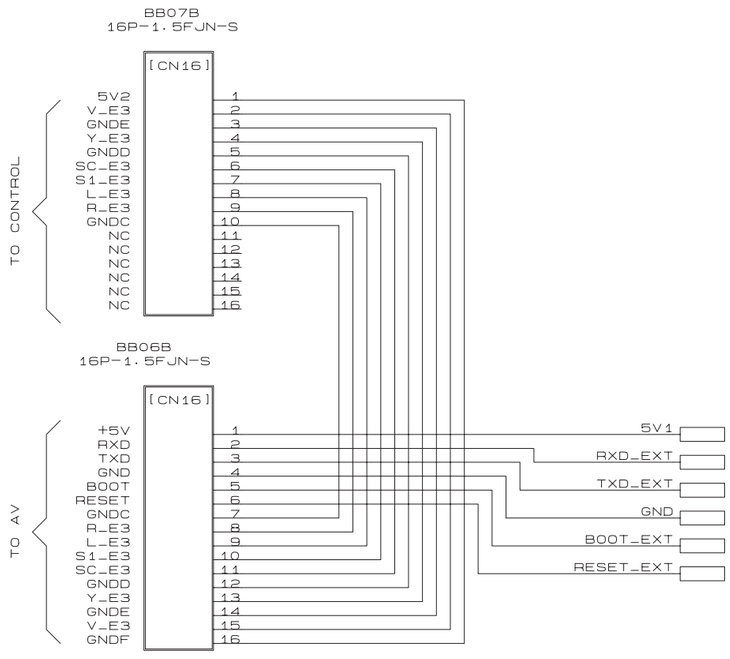


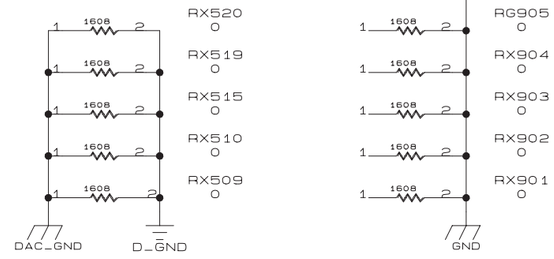
34HF84
Color Dec. (3/3)
SHEET-3/3

SH. NO.
33


5V1
007:7B
TXD
RXD_EXT
DA08
UZDS5.6B
PA02
B6B-EH-F1A
(For RS232C)
[CN6]
LA08 TEM2121M
LA07 TEM2121M
LA14 TEM2121M
LA16 TEM2121M
5V
RxD
TxD
GND
BOOT
RESET
DA05
MA8062-L
DA03
MA8062-L
DA04
MA8062-L
DA06
MA8062-L
RXD
007:2C
BOOT
005:1D
RESET
007:2E:009:8C
TXD_EXT
GND
BOOT_EXT
RESET_EXT
[ZD]
CX947
6.3V
B2.2uF
LA23
TEM2130AM
CA39
16V 10u
[CN9]
BB01B
TO POW/DEF
NORTH AMERICA
COMMON
JAPAN
5V1
GND
ACP
POWER_DEG
POWER
POWER_AN
NC
ACP
POWER_DEG
POWER
POWER_AN
005:1C
006:8C:034:7E
007:2E:035:7B
006:8D
2-4723-004
DA09
1SS355
PB14
B5B-EH-F1A
[CN5]
LA10
TEM2121M
LA05
TEM2121M
LA11
TEM2121M
SCLO
GND
+5V
RESET
SDAO
SCLO
SDAO
006:1D
KEY + JAPAN (DEG, MICRO CONPUTER)
[CN16]
BB08B
LA22
TEM2130AM
NC
NC
DET_EP
DET_HP
5V1
LED
GND
KEY2
KEY1
GND
RMT_OUT
GND
5V1
TM_LEVEL
LA17 TEM2121AM
LA18 TEM2121M
LA04 TEM2121M
LA13 TEM2121M
LA12 TEM2121M
LA01 TEM2121M
LA19 TEM2121M
LA20 TEM2121M
LA03 TEM2121M
LA21 TEM2121M
DET_EP
DET_HP
LED
KEY2
KEY1
RMT_OUT
IR_IN
TM_LEVEL
POWER_DEG
DETECT_SW
006:8C
006:8C
007:7A
005:1B
005:1A
008:8C
005:1D
005:1C
006:8C:034:7C
006:8D
16P-1.5FJN-S
34HF84
Connector (1/3)
SHEET-1/3
SH. NO.
34


BB04B
16P-1.5FJN-S
[CN16]
TO AV TERMINAL
SW_BS
HDMI_RST
NC
GND
MUTE_A
W_MUTE/BS_FIX
EXT_MUTE
SP_MUTE
SCL1
SDA1
SYNC_BSD
CN_LEVEL
SW_BS
NC
PIP_AFT
MAIN_AFT
007:2C:035:3B
006:8D
007:7F
007:2E
006:8C
006:8C
003:1B:006:1D:012:6D:013:6C:032:2D:035:7E
003:1B:006:1D:012:6D:013:6A:032:2D:035:7E
005:1C
005:8D
007:2C:035:3A
005:1A
005:1A
GND
NC
NC
BB03B
16P-1.5FJN-S
FROM A/V
9V
5V3
5V4
POWER
POWER_LNB
SHORT_LNB
POWER_BS
007:2E:034:7C
006:8D
006:8C
006:8D
CX940
6.3V
B2.2uF
CX941
6.3V
B2.2uF
D_GND
BB05B
16P-1.5FJN-S
TO AV TERMINAL
V3_QV01
C3_QV01
Y3_QV01
Y1_QV01_1
Pb1_QV01_1
Pr1_QV01_1
Y2_QV01_1
Pb2_QV01_1
Pr2_QV01_1
HD_HDMI
VD_HDMI
030:2C
033:6E
033:2C
001:1B
001:1E
001:5E
013:2C
013:2C
013:2B
032:2C
032:2C
BB02B
23FE-BT-VK-N
[CN23]
FROM POW/DEF
GND
9V
SCL1
SDA1
ABL_SW1
ABL_SW2
OSD_HD
PROT_DET
H_START
VP_Q510
HOSC_VCC
CENT_C_EW
DQF_VIDEO
BEND_DET
BLK_V_DEF
AFC
ABL
GND_DEF
HDRIVE
002:8E:002:8F:019:7B:019:8D:020:1A:020:1B:027:8C:027:8D
003:1B:006:1D:012:6D:013:6C:032:2D:035:3B
003:1B:006:1D:012:6D:013:6A:032:2D:035:3B
005:7F
005:7F
008:5D
005:8D
003:1C:008:5E
003:8C
003:1E
004:8A
003:8E
002:8B
003:1D
002:8B
003:8E
003:1C
34HF84
Connector (2/3)
SHEET-2/3
SH. NO.
35

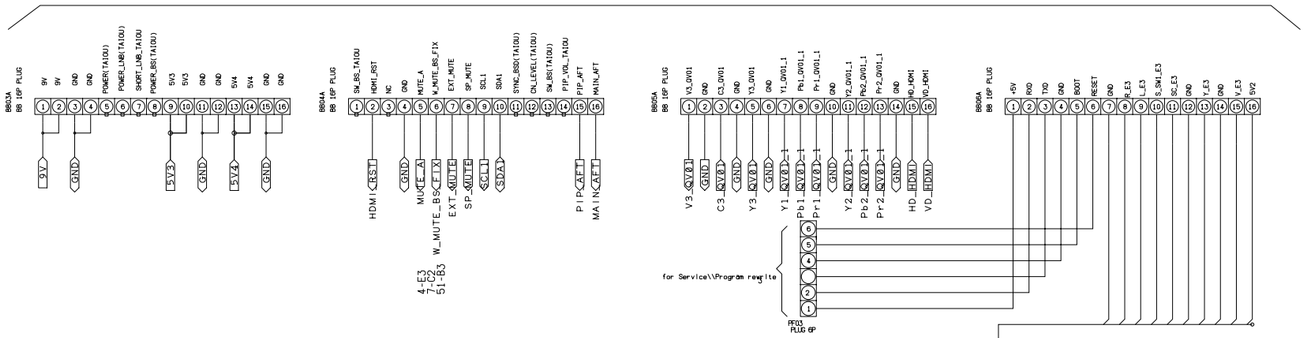


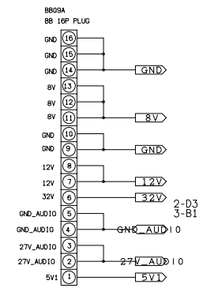


34HF84
Connector (3/3)
SHEET-3/3

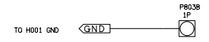
SH. NO.
36

FROM Hyper/Signal

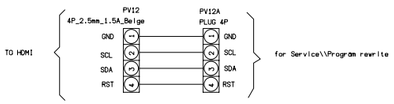


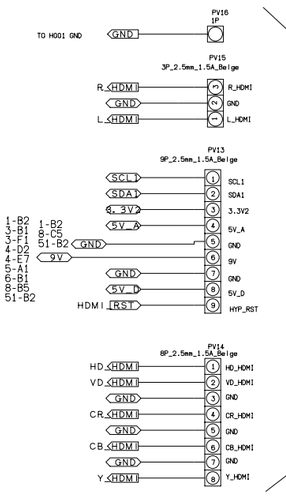


FROM POW/DEF



FROM POW/DEF





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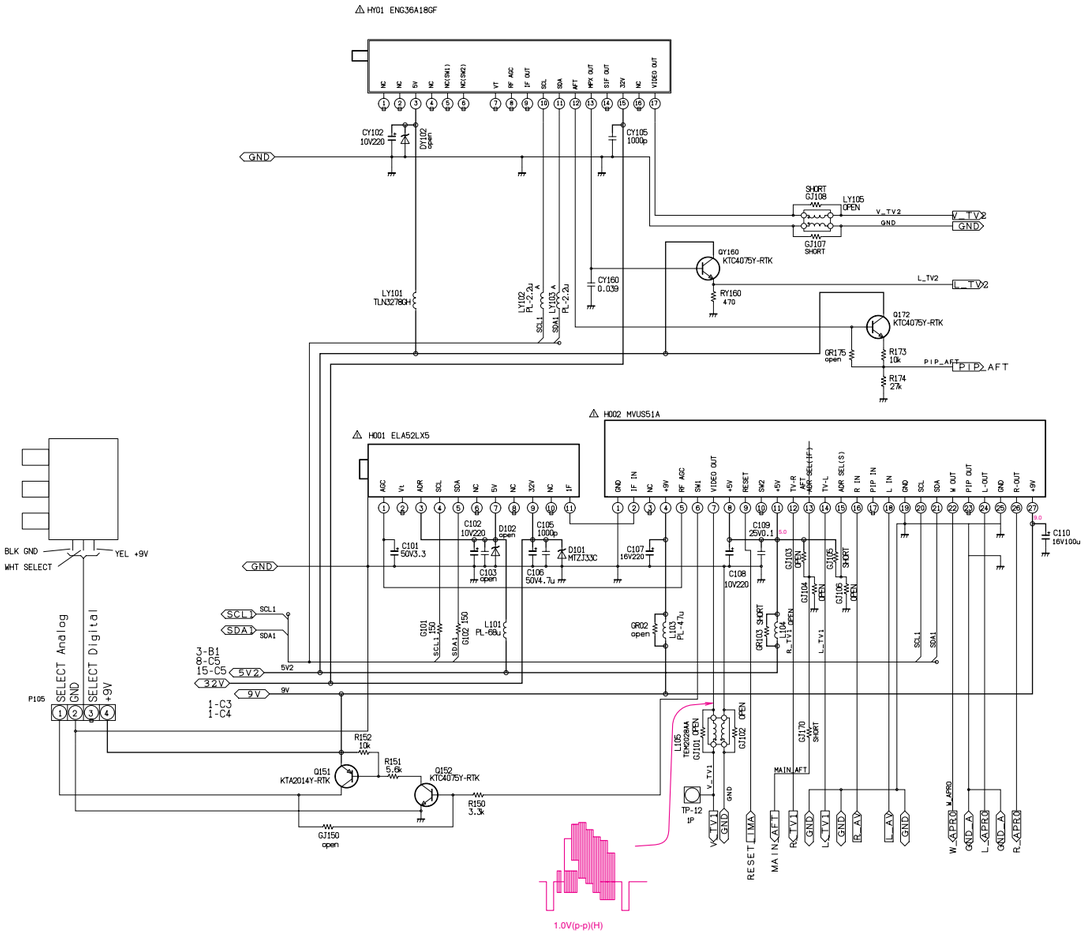
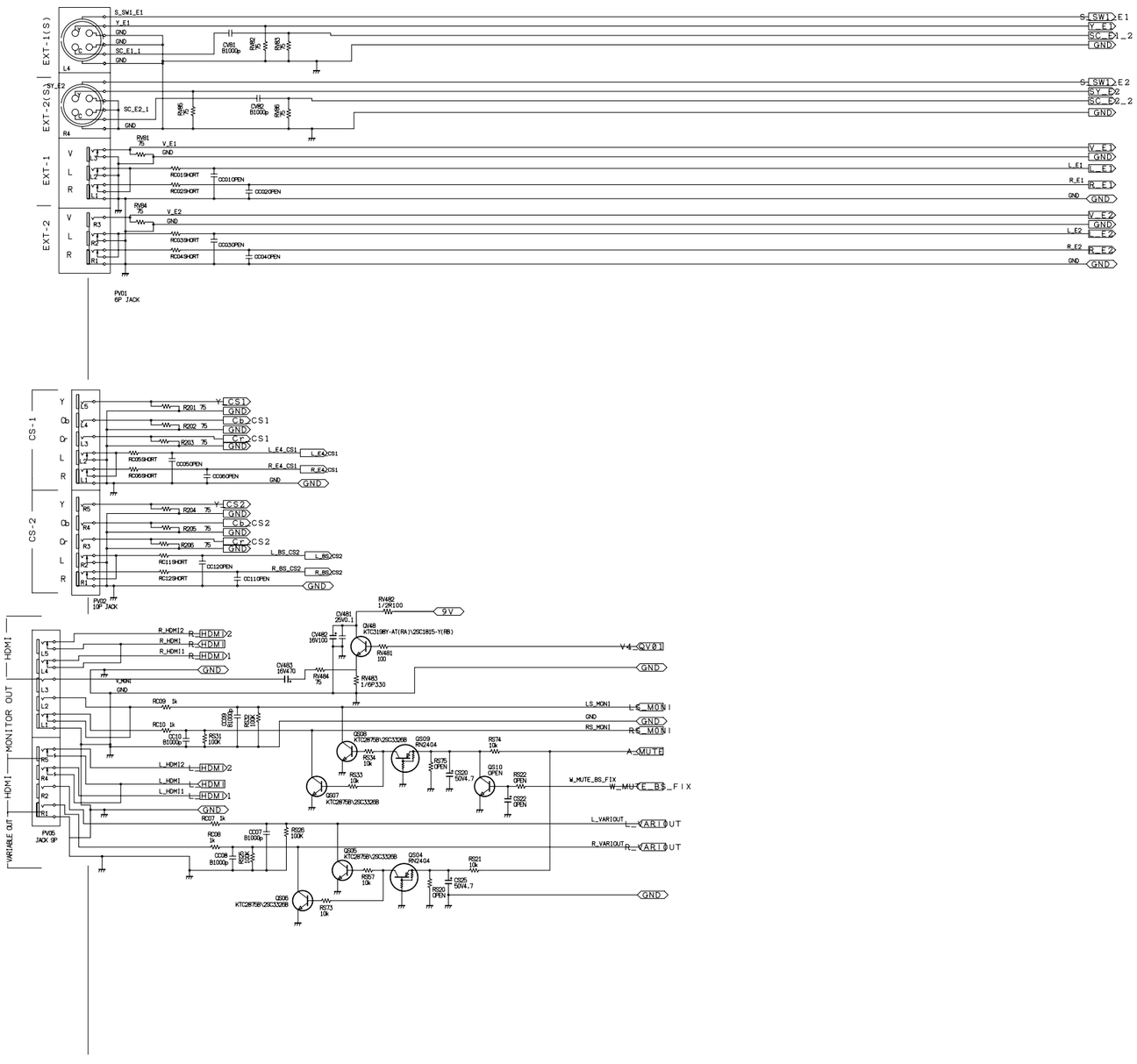
34HF84
AV_Terminal (BANKAN)
SHEET-1/7

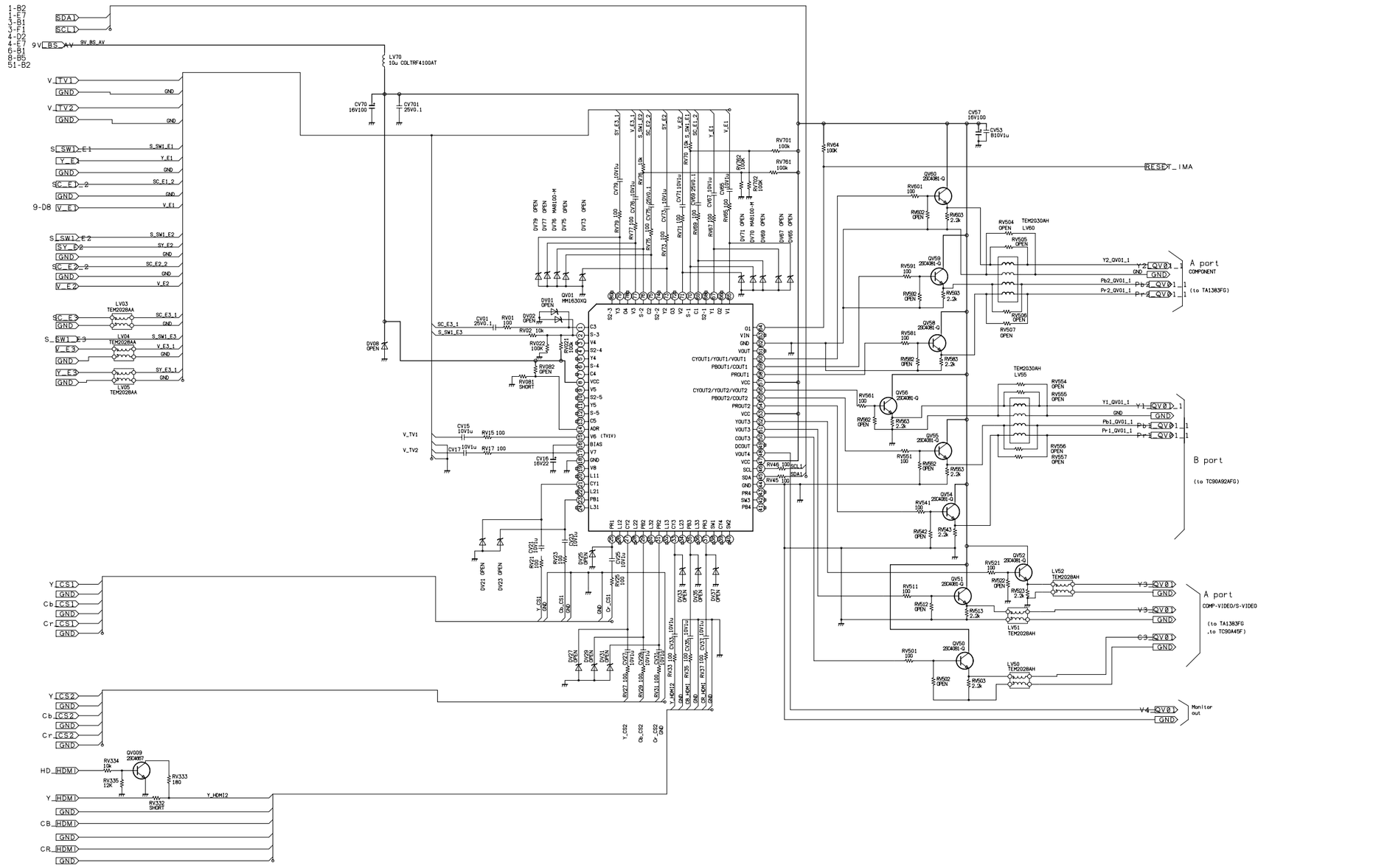


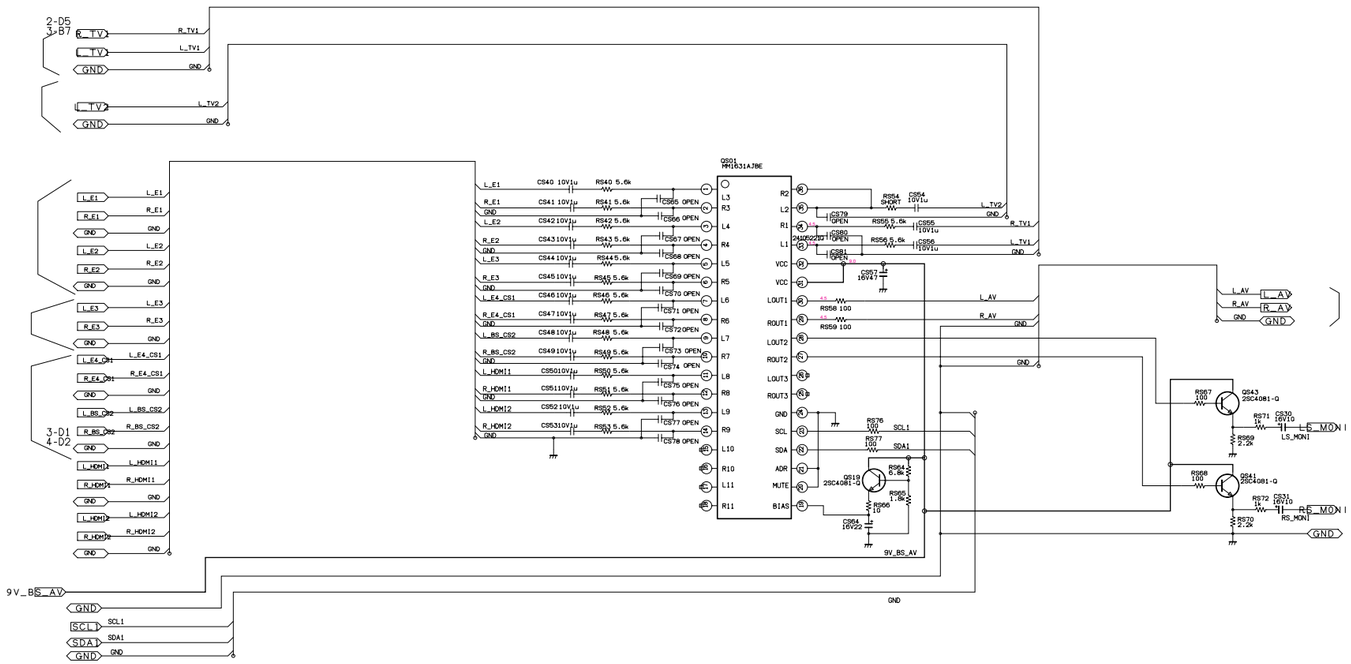
34HF84
AV_Terminal (Tuner/IF_TIF)
SHEET-2/7

AV Terminal BOARD

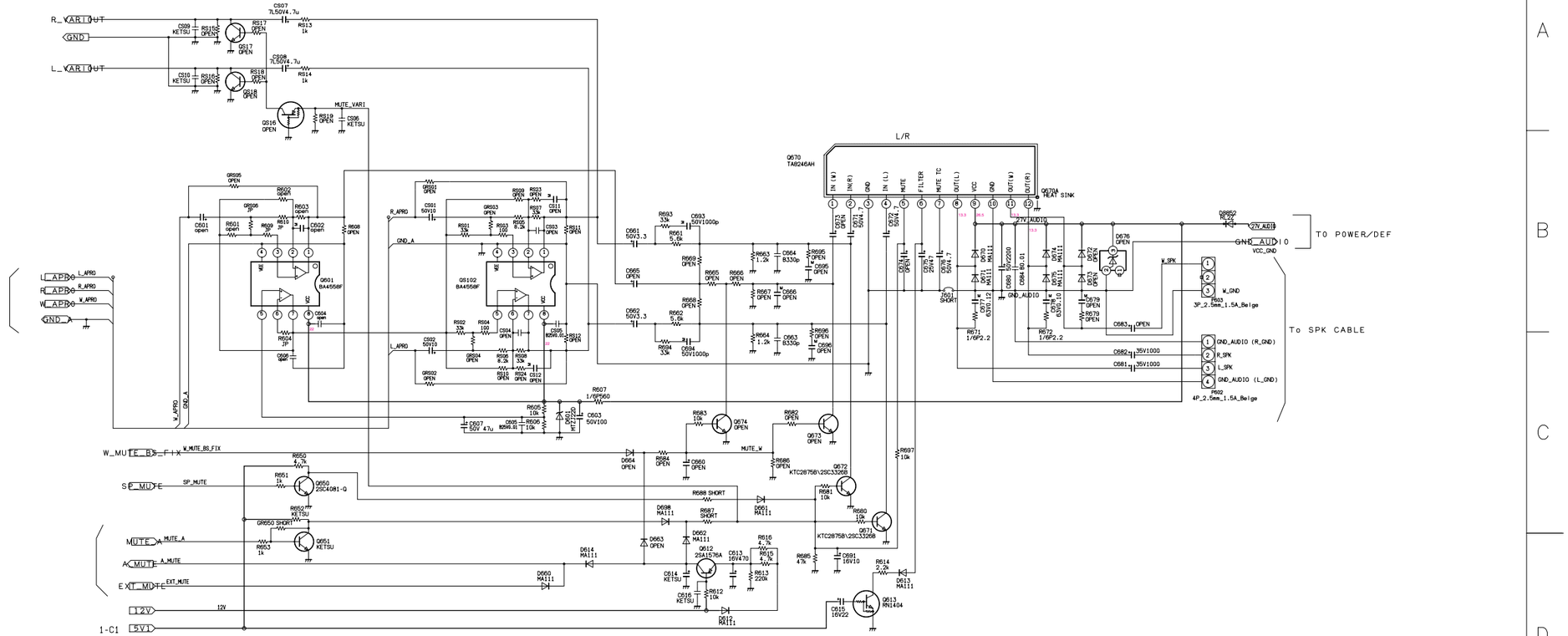


34HF84
AV_Terminal (JACK)
SHEET-3/7

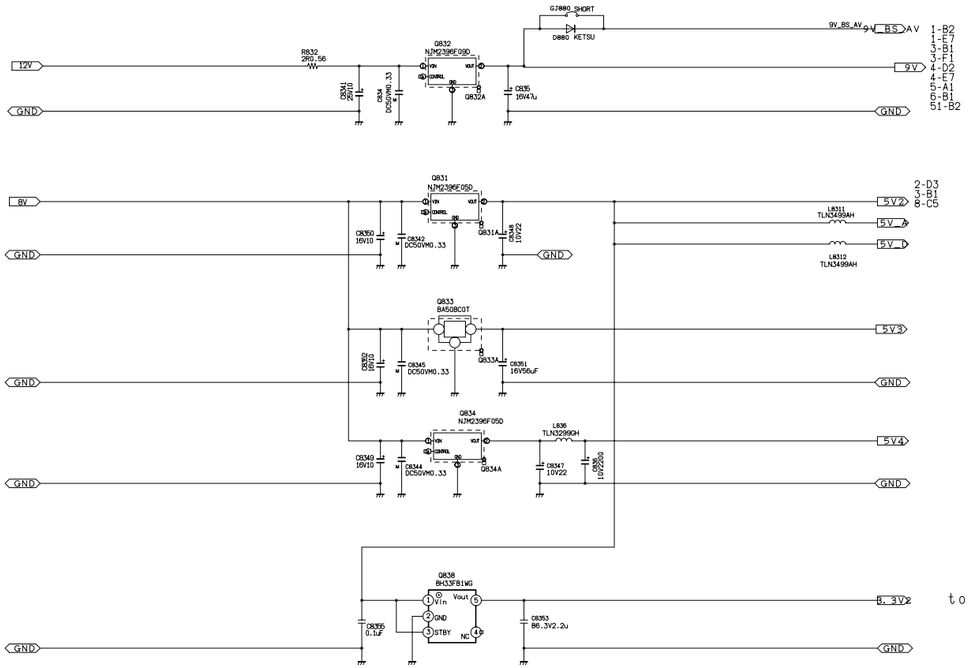

SDA1
SCL1
9V_BS_AV
LV70
10u COLTRF4100AT
V_TV1
V_TV2
GND
S_SW1_E1
Y_E1
SC_E1_2
V_E1
S_SW1_E2
SY_E2
SC_E2_2
V_E2
LV03
TEM2028AA
LV04
TEM2028AA
LV05
TEM2028AA
S_SW1_E3
V_E3_1
SY_E3_1
SC_E3_1
QV01
MM1630XQ
DV01 OPEN
DV02 OPEN
DV08 OPEN
RV01 100
RV02 10k
RV022 100K
RV021 100K
RV082 OPEN
RV081 SHORT
CV01 25V0.1
CV15 10V1u
CV16 10V22
RV15 100
RV17 100
CV17 10V1u
V_HDMI2
RESET_IMA
RV64 100K
RV701 100k
RV761 100k
RV702 100K
RV762 100K
CV57 16V100
CV53 B10V1u
QV60 2SD40R1-Q
QV59 2SD40R1-Q
QV58 2SD40R1-Q
QV56 2SD40R1-Q
QV55 2SD40R1-Q
QV54 2SD40R1-Q
QV52 2SD40R1-Q
QV51 2SD40R1-Q
QV50 2SD40R1-Q
RV601 100
RV602 OPEN
RV603 2.2k
RV591 100
RV592 OPEN
RV593 2.2k
RV581 100
RV582 OPEN
RV583 2.2k
RV561 100
RV562 OPEN
RV563 2.2k
RV551 100
RV552 OPEN
RV553 2.2k
RV541 100
RV542 OPEN
RV543 2.2k
RV521 100
RV522 OPEN
RV523 2.2k
RV511 100
RV512 OPEN
RV513 2.2k
RV501 100
RV502 OPEN
RV503 2.2k
LV60 TEM2030AH
LV55 TEM2030AH
LV52 TEM2028AH
LV51 TEM2028AH
LV50 TEM2028AH
RV504 OPEN
RV505 OPEN
RV506 OPEN
RV507 OPEN
RV554 OPEN
RV555 OPEN
RV556 OPEN
RV557 OPEN
Y2_QV01_1
Pb2_QV01_1
Pr2_QV01_1
A port
COMPONENT
(to TA1383FG)
Y1_QV01_1
Pb1_QV01_1
Pr1_QV01_1
B port
(to TC90A92AFG)
Y3_QV01_1
A port
COMP-VIDEO/S-VIDEO
(to TA13R3FG
,to TC90A45F)
G3_QV01_1
V4_QV01_1
Monitor out
Y_CS1
Cb_CS1
Cr_CS1
Y_CS2
Cb_CS2
Cr_CS2
QV09 2SD601
RV334 10k
RV335 1.2K
RV333 180
RV332 SHORT
Y_HDMI2
HD_HDMI
Y_HDMI
CB_HDMI
CR_HDMI
34HF84
AV_Terminal (V_SW)
SHEET-4/7



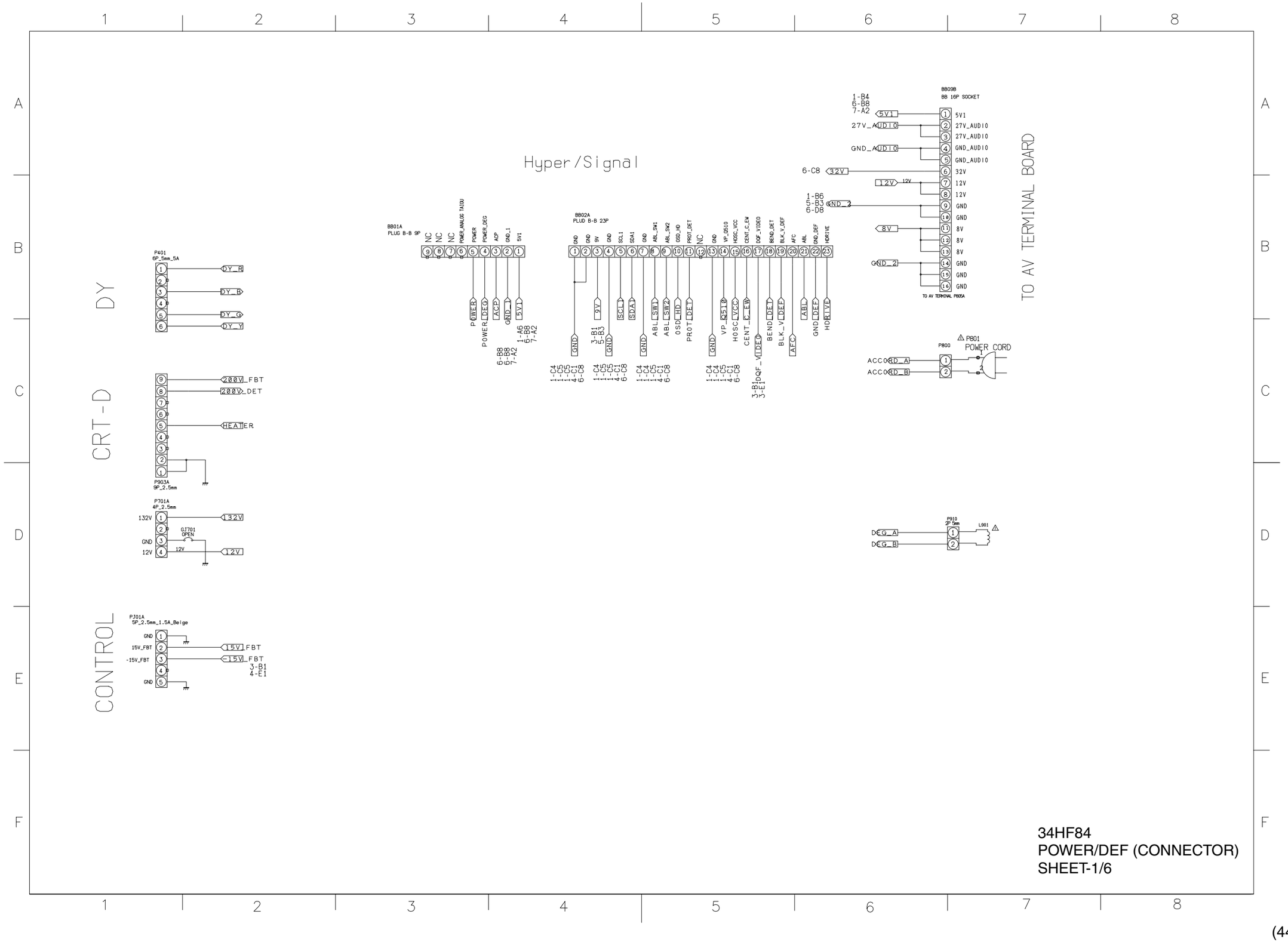
34HF84
AV_Terminal (A_SW)
SHEET-5/7



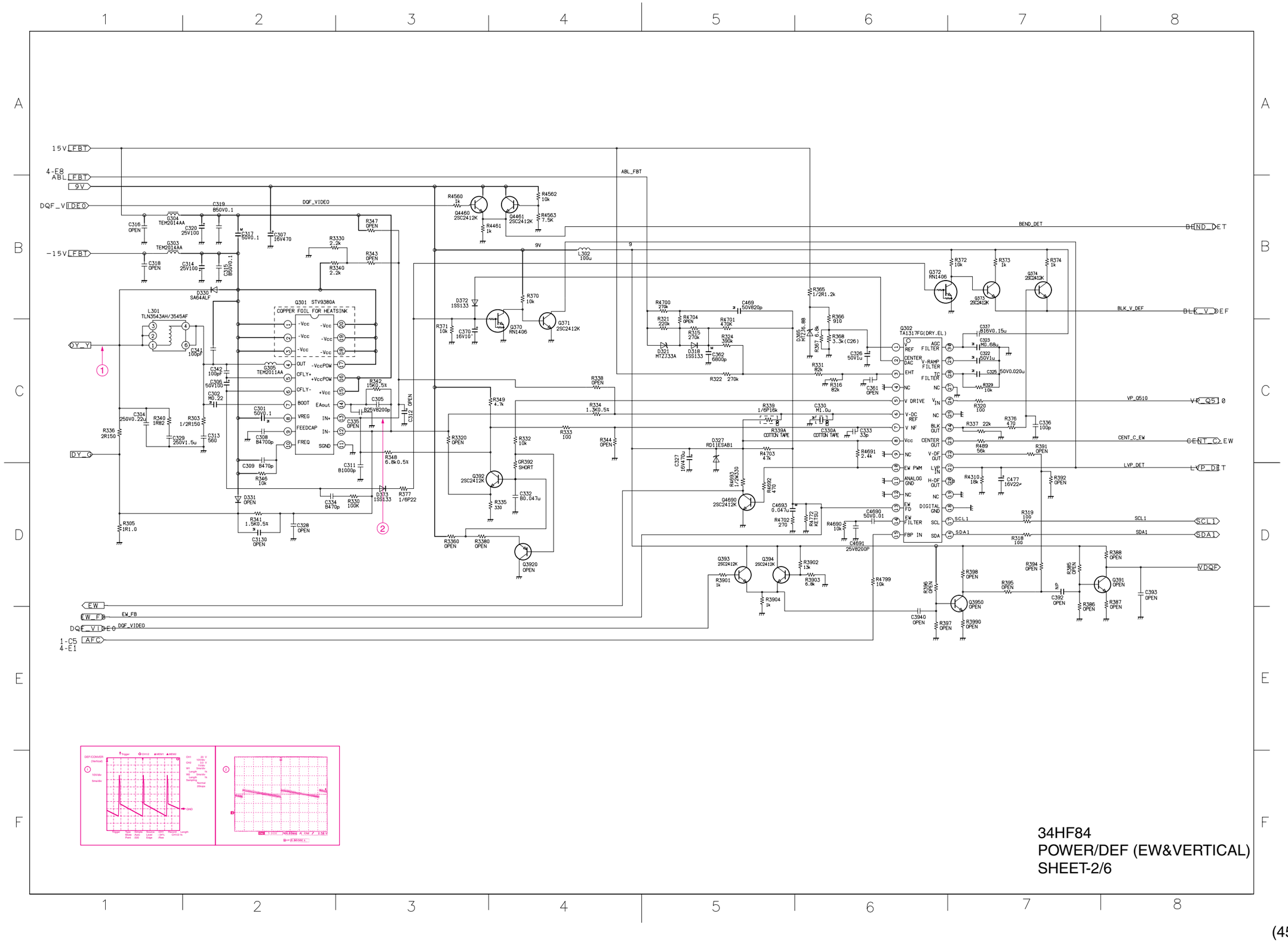
34HF84
AV_Terminal (AUDIO_OUT)
SHEET-6/7



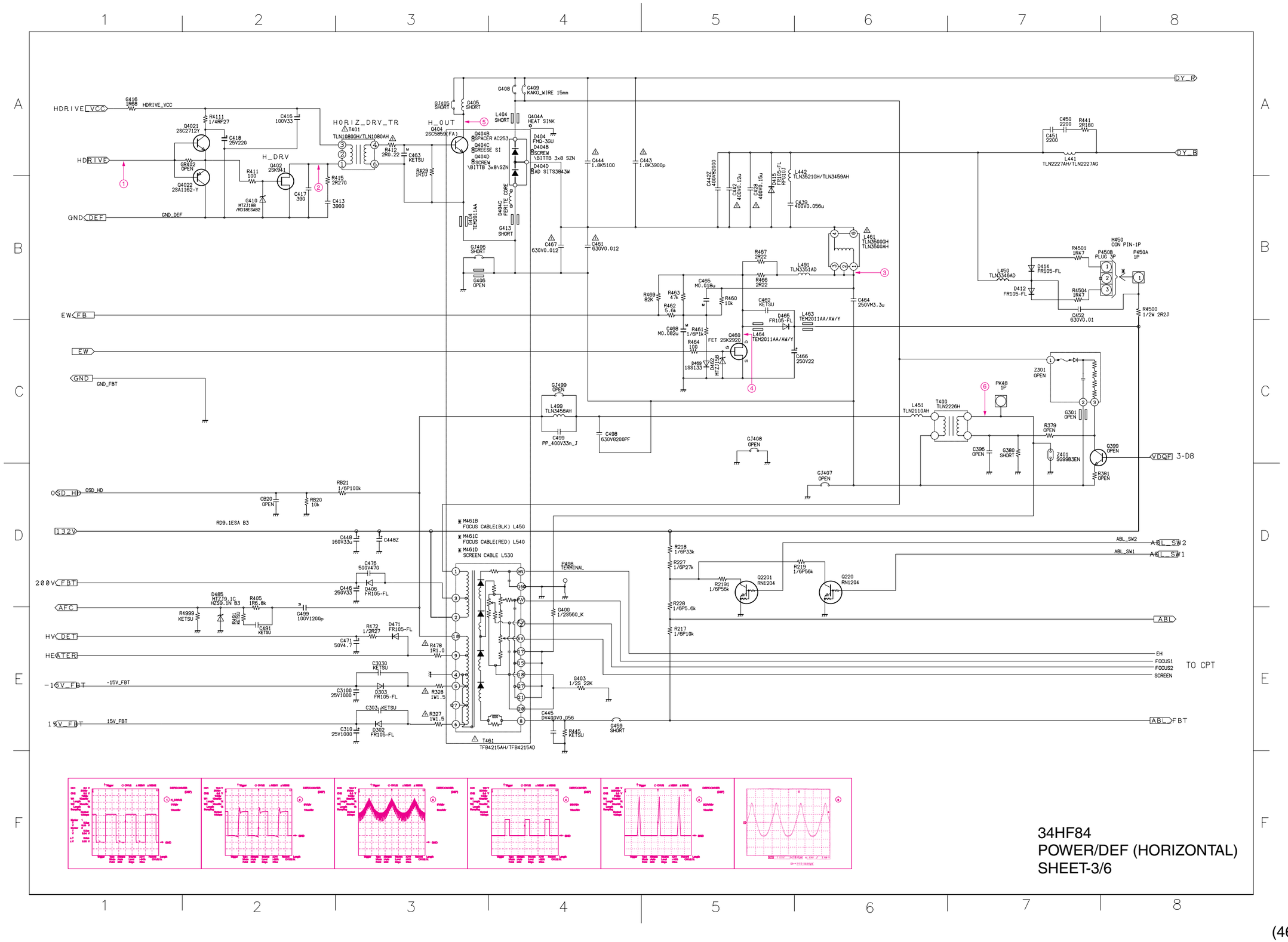
34HF84
AV_Terminal (REG)
SHEET-7/7



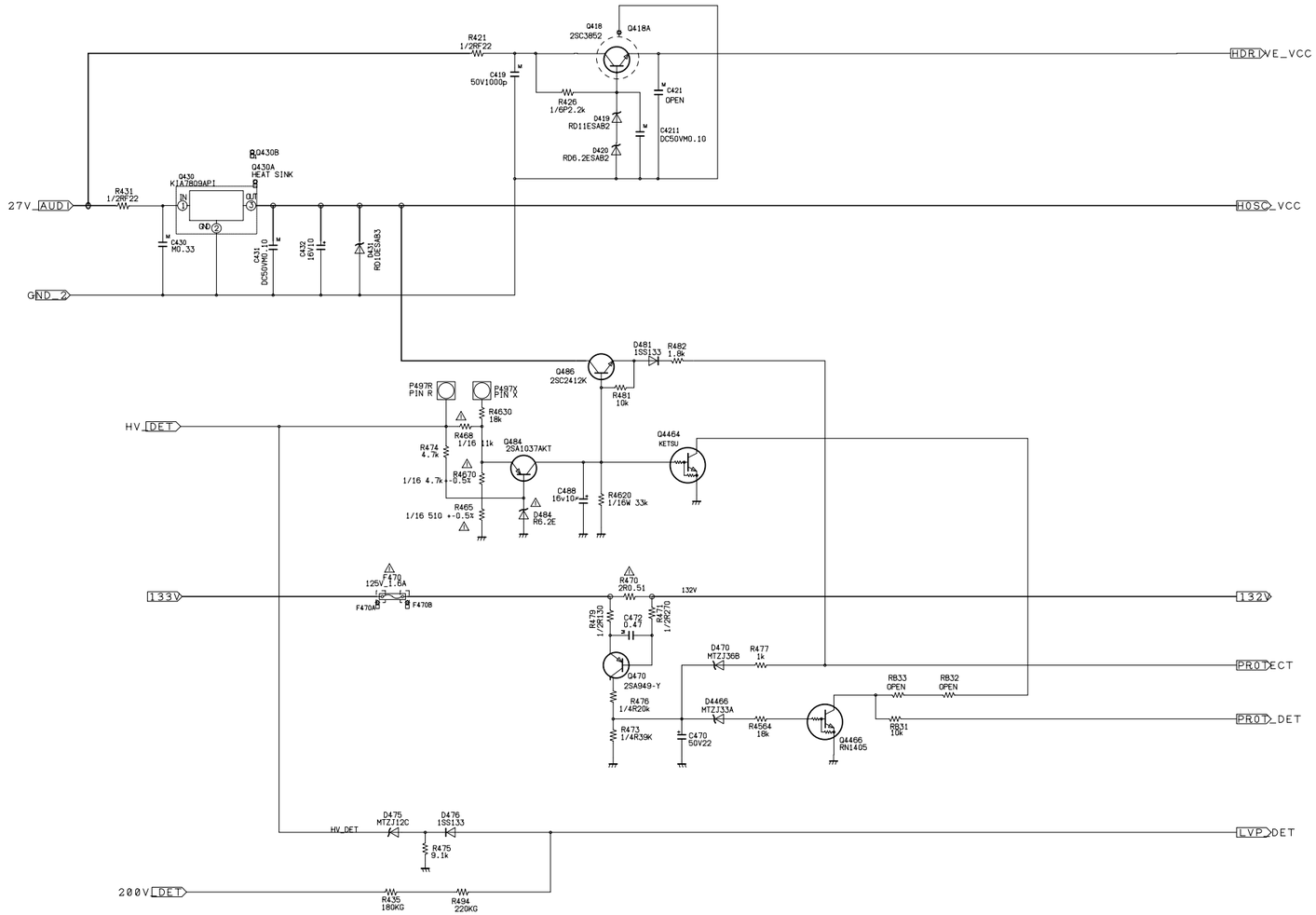
34HF84
POWER/DEF (CONNECTOR)
SHEET-1/6



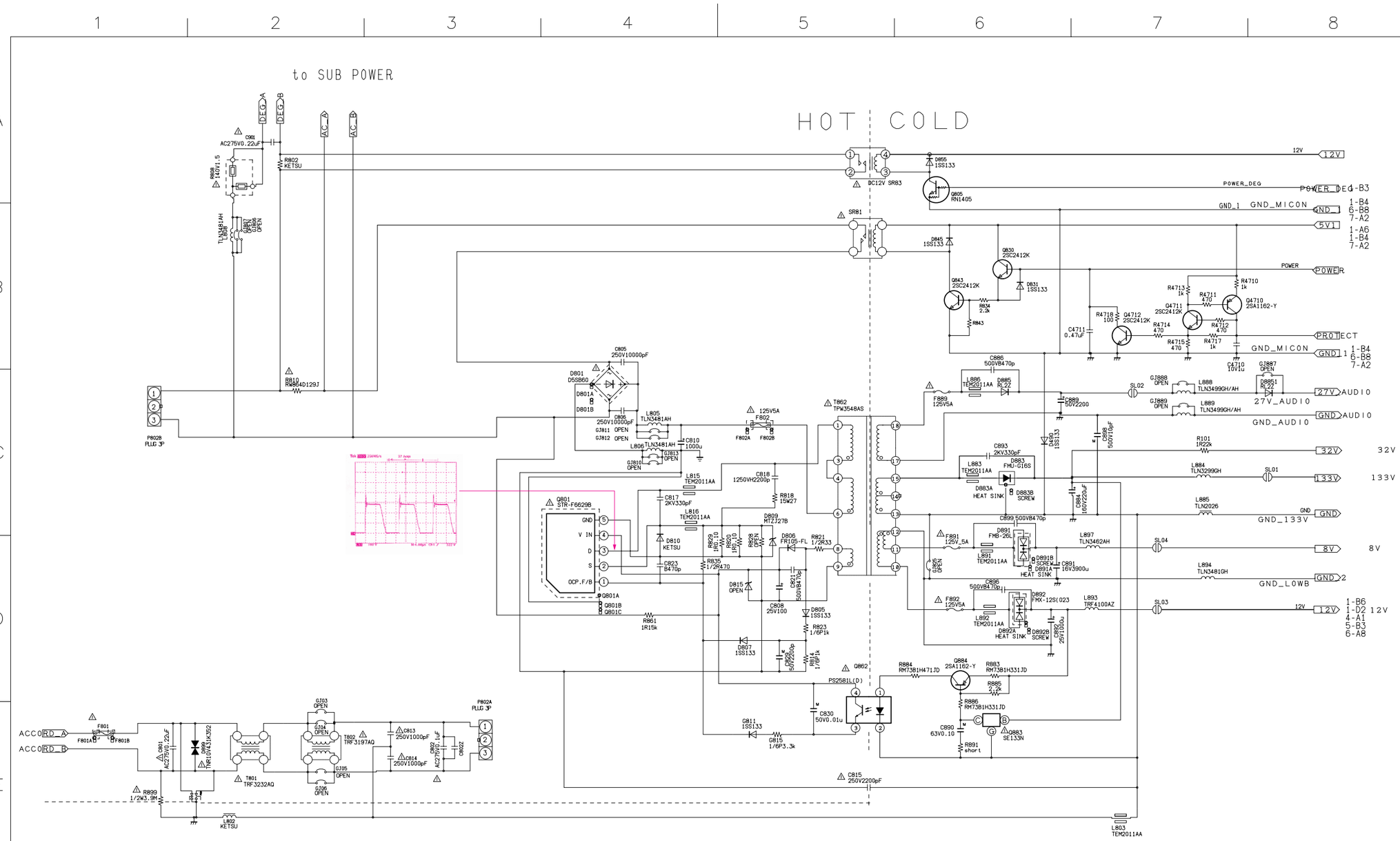
34HF84
POWER/DEF (EW&VERTICAL)
SHEET-2/6

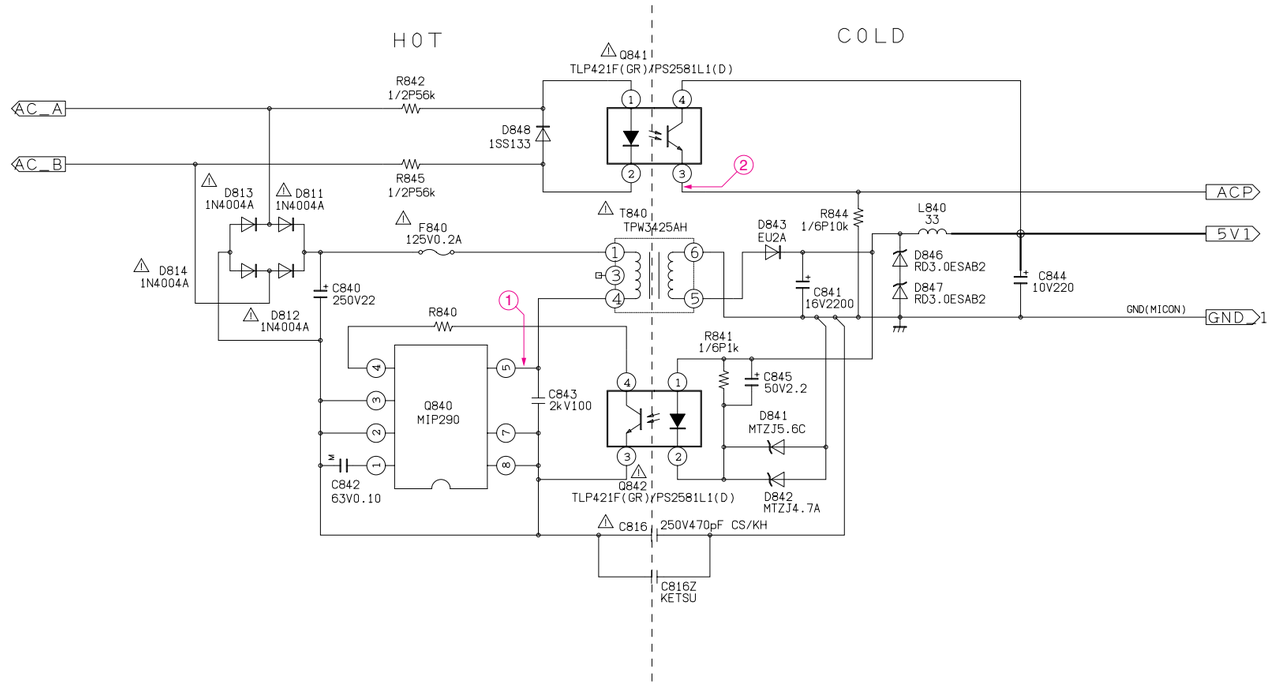


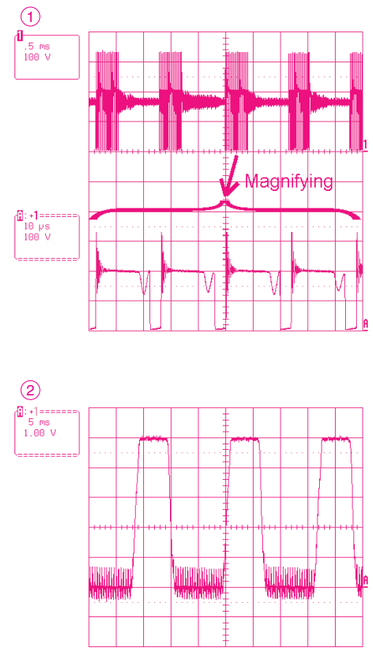
34HF84
POWER/DEF (HORIZONTAL)
SHEET-3/6



34HF84
POWER/DEF (PROTECTOR)
SHEET-4/6

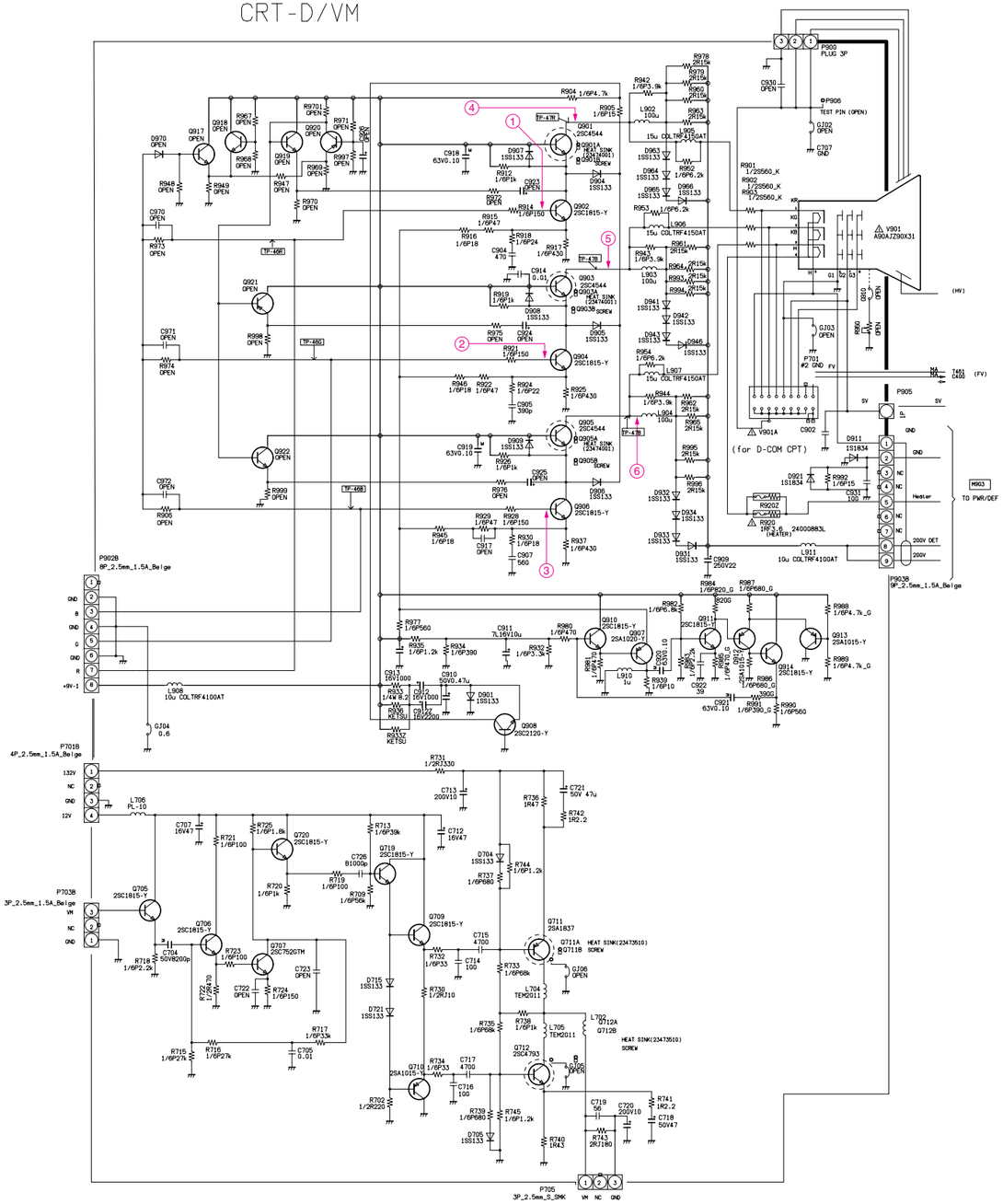

to SUB POWER
HOT
COLD
12V
POWER_DEG
GND_1
GND_MICON
5V1
POWER
PROTECT
27V_AUDIO
GND_AUDIO
32V
133V
GND_133V
8V
GND_L0WB
ACC0RD_A
ACC0RD_B
34HF84
POWER/DEF (MAIN POWER)
SHEET-5/6

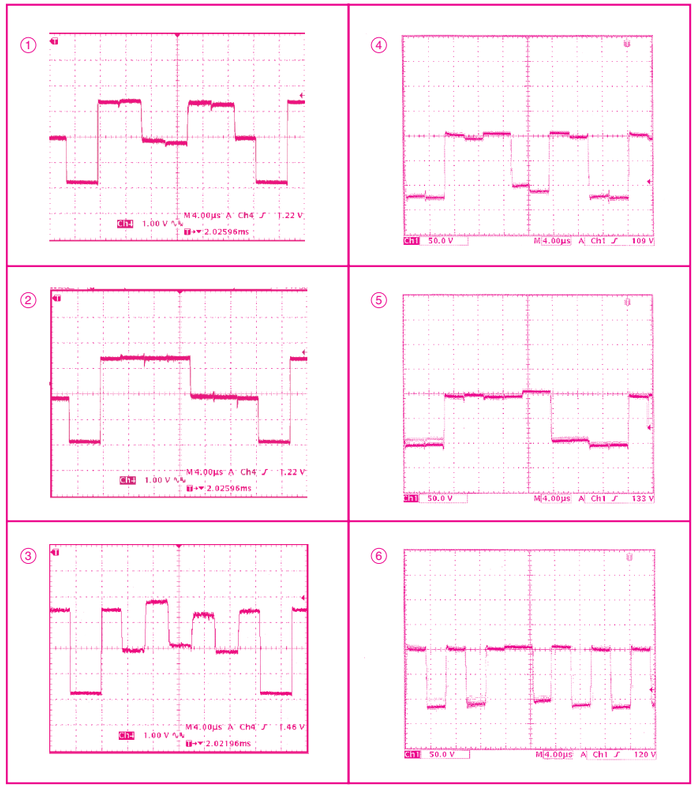




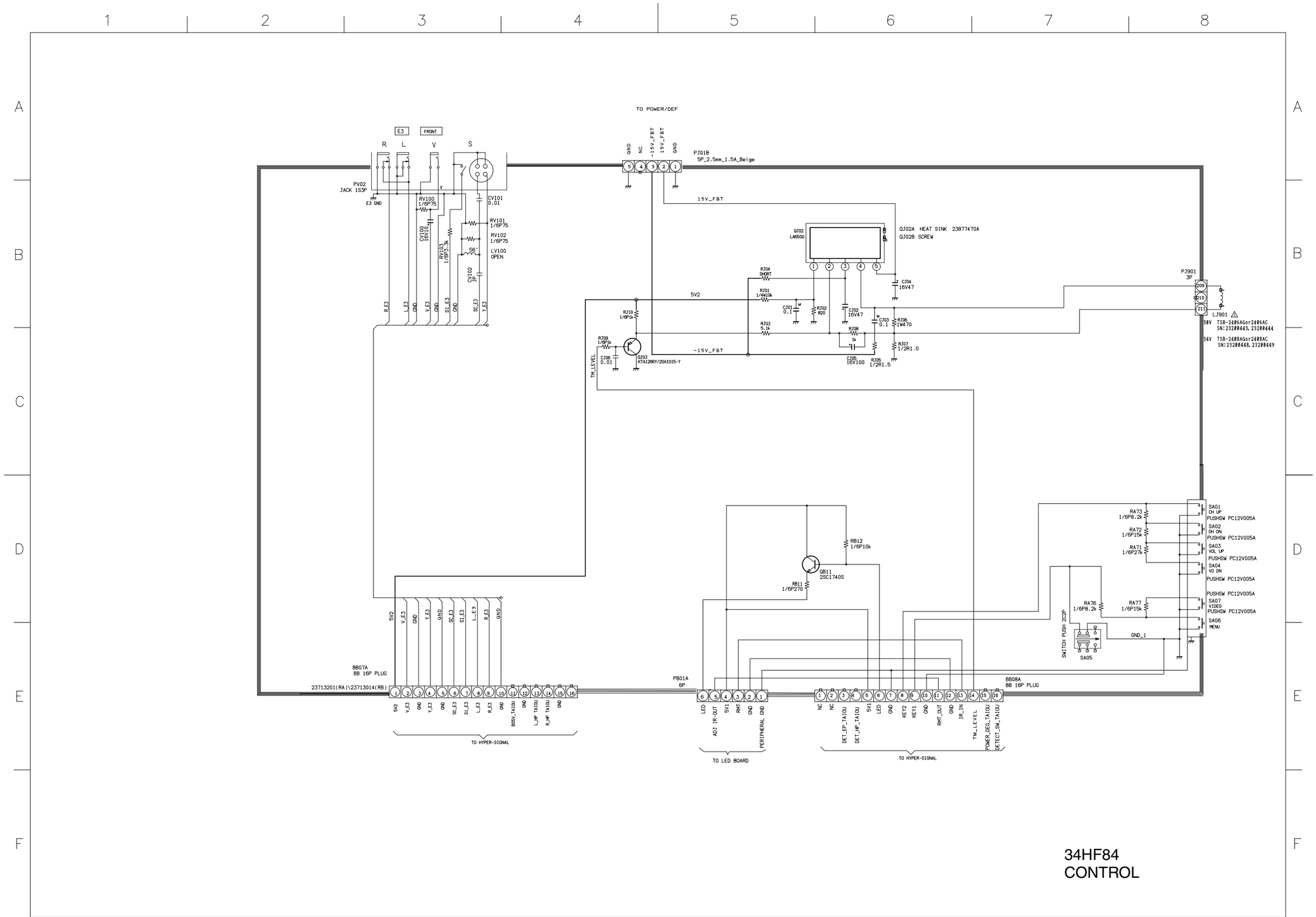
34HF84
POWER/DEF (SUB POWER)
SHEET-6/6

CRT-D/VM

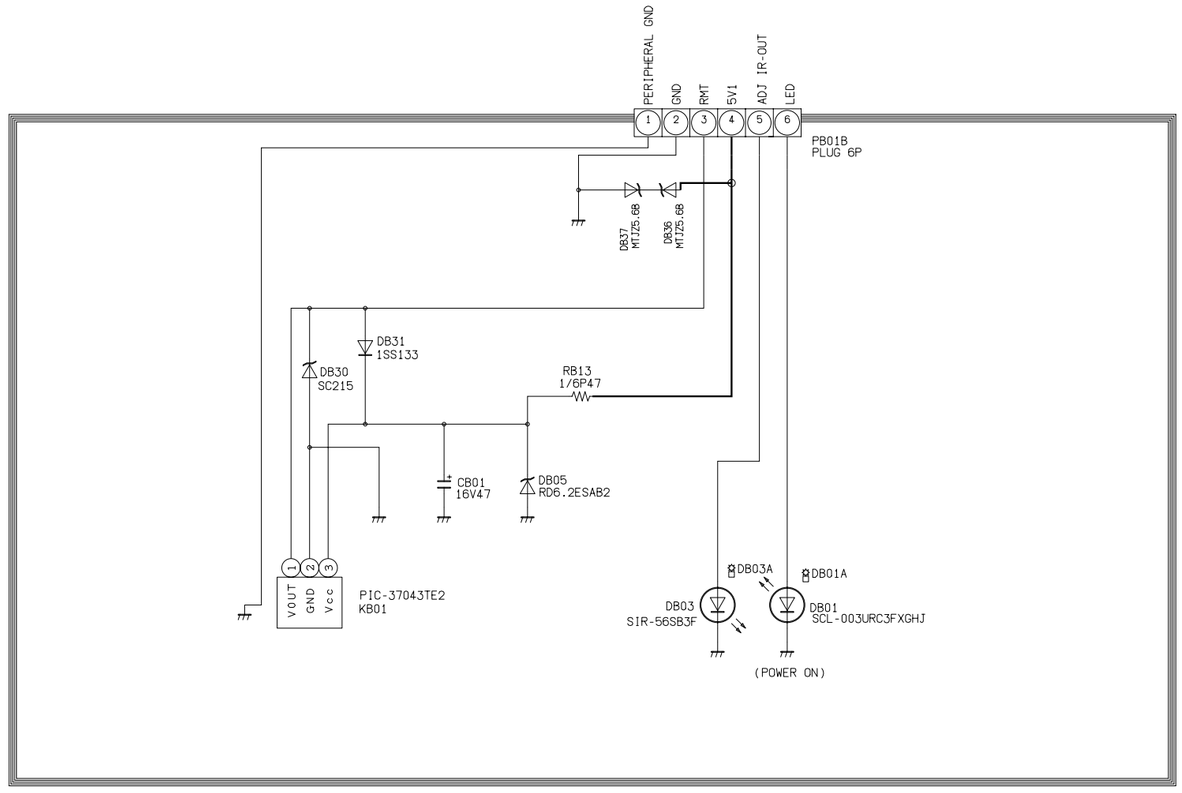




34HF84
CRT-D



34HF84
CONTROL


PERIPHERAL
GND
RMT
5V1
ADJ IR-OUT
LED
1
2
3
4
5
6
PB01B
PLUG 6P
DB37
MTZJ5.6B
DB36
MTZJ5.6B
DB31
1SS133
DB30
SC215
RB13
1/6P47
CB01
16V47
DB05
RD6.2ESAB2
VOUT
GND
Vcc
PIC-37043TE2
KB01
DB03A
DB01A
DB03
SIR-56SB3F
DB01
SCL-003URC3FXGHJ
(POWER ON)

34HF84
LED